

PVM-1353MD/1453MD

SERVICE MANUAL

US Model
Canadian Model

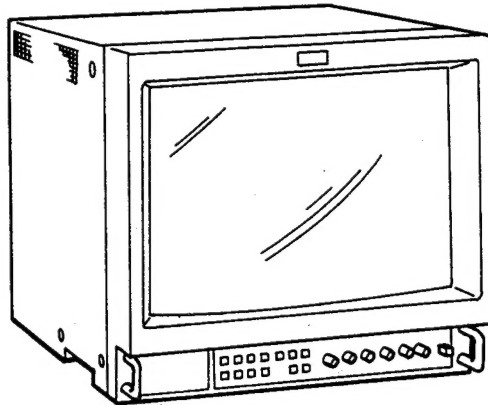
PVM-1353MD

Chassis No. SCC-H31B-A

AEP Model

PVM-1453MD

Chassis No. SCC-H29C-A



SPECIFICATIONS (PVM-1353MD)

Video signal

Color system	NTSC, PAL
Resolution	600 TV lines
Aperture correction	0 dB - +6.0 dB
Frequency response	LINE 9.0 MHz (-3 dB) RGB 10.0 MHz (-3 dB)
Synchronization	AFC time constant 1.0 msec.

Raster size stability	H 1.0%, V 1.5%
High voltage regulation	3.5%

CRT	SMPTE-C phosphor
Color temperature	6500K/5600K/USER (3200K - 10000K, factory setting is 6500K)

Picture performance

Overscan	20% overscan of CRT effective screen area
Normal scan	7% overscan of CRT effective screen area
Underscan	5% underscan of CRT effective screen area
Linearity	Horizontal: Less than 4% (typical) Vertical: Less than 4% (typical)
Convergence	Central area 0.6 mm (typical) Peripheral area 0.8 mm (typical)

Inputs

Y/C IN	4-pin mini DIN connector See the pin assignment on the page 2.
VIDEO IN	BNC connector 1Vp-p \pm 6 dB, sync negative
AUDIO IN	phono jack, -5 dBu, more than 47k ohms
R/R-Y IN, G/Y IN, B/B-Y IN	BNC connector
R, G, B channels	0.7 Vp-p \pm 6 dB
Sync on green	1.0 Vp-p Sync negative, 75 ohms terminated

— Continued on next page —



TRINITRON® COLOR VIDEO MONITOR
SONY®

PVM-1353MD/1453MD

- R-Y, B-Y channels
Y channel
- 0.7 Vp-p ±6 dB
1.0 Vp-p ±6 dB
(Standard color bar signal of 75% chrominance)
- EXT SYNC IN
- BNC connector composite sync
4 Vp-p ±6 dB, negative

Outputs

- Y/C OUT
- 4-pin mini DIN connector, 75 ohms terminated
- VIDEO OUT
- BNC connector, 75 ohms terminated
- AUDIO OUT
- phono jack
- R/R-Y OUT, G/Y OUT, B/B-Y OUT
- BNC connector, 75 ohms terminated
- EXT SYNC OUT
- BNC connector, 75 ohms terminated
- DC OUT
- 5 V/1 A
- Speaker output
- Output level 0.8 W

Remote input

- REMOTE 1
- 8-pin mini DIN
See the pin assignment on the page 2.
- RS-232C
- 9-pin D-sub
See the pin assignment on the page 2.

General

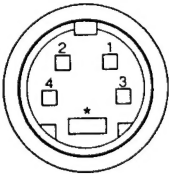
- Power requirements
- 120 V AC, 50/60 Hz
1.3 A
Capable of 100 to 240V operation
- Operating temperature range
- 0 – 35°C
- Storage temperature range
- 10 – +40°C
- Humidity
- 0 – 90%
- Dimensions
- Approx. 346 × 340 × 411.5 mm (w/h/d)
(13⁵/₈ × 13¹/₂ × 16¹/₄ inches)
not incl. projecting parts and controls
- Mass
- Approx. 16.7 kg (36 lb 14 oz)
- Accessory supplied
- AC power cord (1)
AC plug holder (1)
Splash proof covers (2)
Control panel cover (1)
Panel hinges (2)
Remote Control Connector
8-pin mini DIN (1)
Operating Instructions (1)
Interface Manual for Programmers (1)
Quick Reference Card (1)
Double-sided adhesive tapes (4)

0 dBu = 0.775 Vr.m.s.

Design and specifications are subject to change without notice.

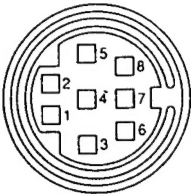
Pin assignment

Y/C IN connector (4-pin mini DIN)



Pin No.	Signal	Description
1	Y-input	1 Vp-p, sync negative, 75 ohms
2	CHROMA sub-carrier-input	300 mVp-p, burst Delay time between Y and C: within 0±100 nsec., 75 ohms
3	GND for Y-input	GND
4	GND for CHROMA-input	GND

REMOTE 1 connector (8-pin mini DIN)



Pin No.	Signal
1	REMOTE ON/OFF
2	LINE A
3	GND
4	LINE B
5	TALLY
6	OVER SCAN
7	RGB A
8	RGB B

RS-232C connector (9-pin D-sub)



Pin No.	Signal
1	—
2	RX
3	TX
4	—
5	GND
6	—
7	RTS
8	CTS
9	—

PVM-1353MD/1453MD

SONY. SERVICE MANUAL

VM815
US Model
Canadian Model
PVM-1353MD
Chassis No. SCC-H31B-A
AEP Model
PVM-1453MD
Chassis No. SCC-H29C-A

CORRECTION-1

File this correction with the service manual.

• INTRODUCTION

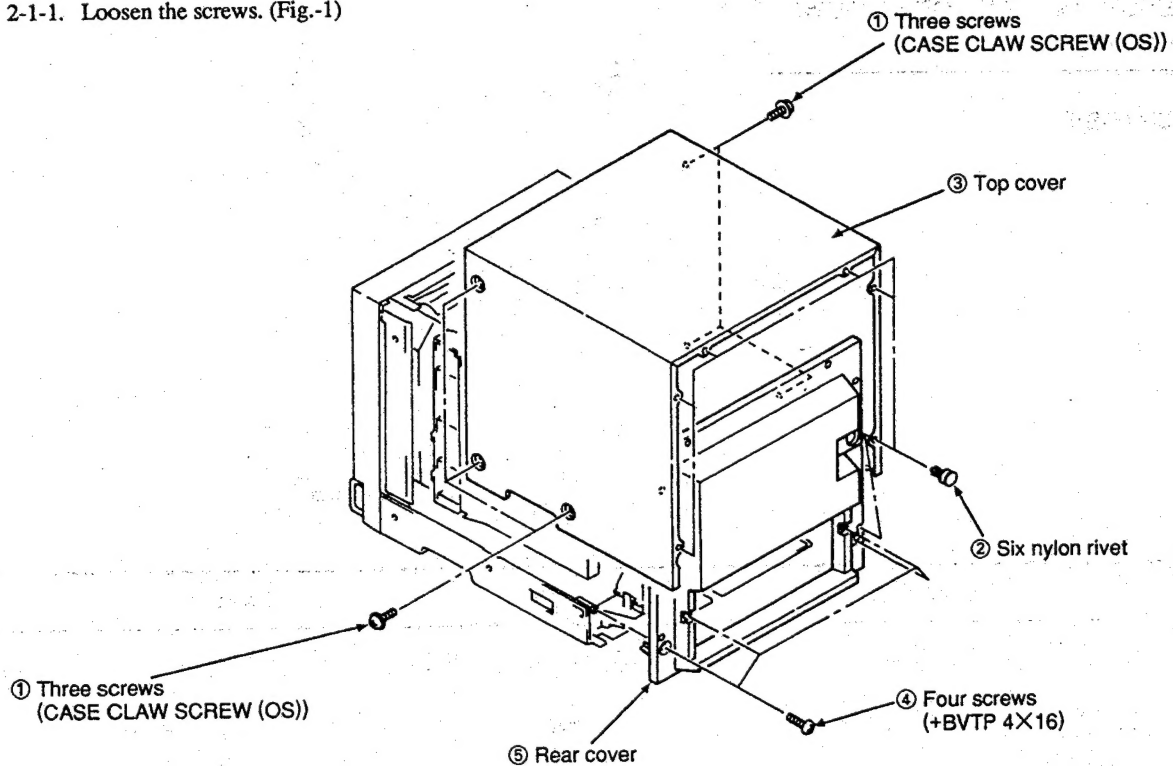
DISASSEMBLY and EXPLODED VIEWS have some additions. (PVM-1353MD only)

 : Indicates corrected portion

1. SECTION 2 DISASSEMBLY Page 27

: 2-1. TOP COVER AND REAR COVER REMOVAL

2-1-1. Loosen the screws. (Fig.-1)

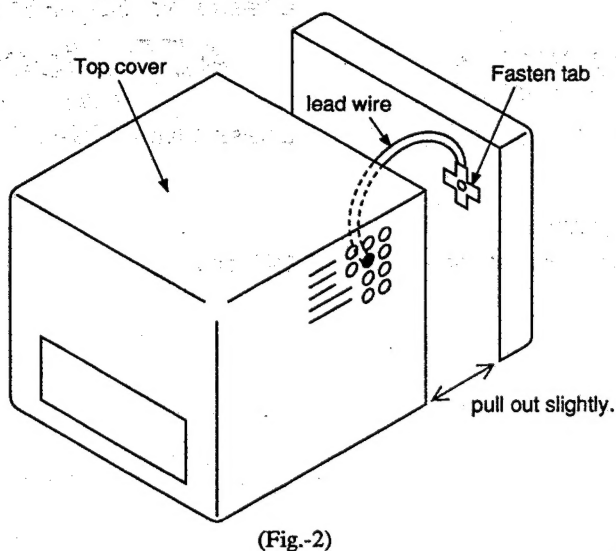


(Fig.-1)



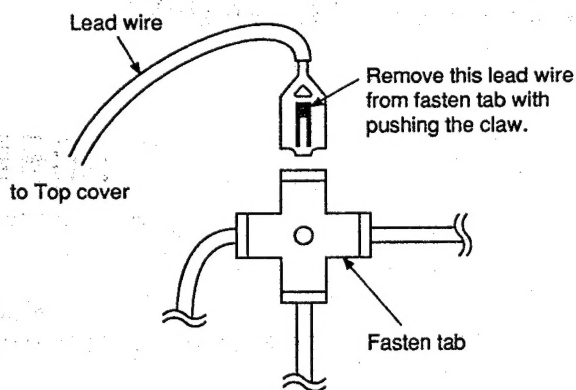
2-1-2. Pull out TOP COVER to backward slightly. (Fig.-2)

Caution: At this time, must not pull out to backward so considerably because the lead wire of TOP COVER breaks. Only the lead wire exchanging is not able when the lead wire has broken but COVER COMPLETE ASSY, TOP exchanging is able.



(Fig.-2)

2-1-3. Four lead wires are connecting to the fasten tub and remove a lead wire which connected to the TOP COVER. (Fig.-3)



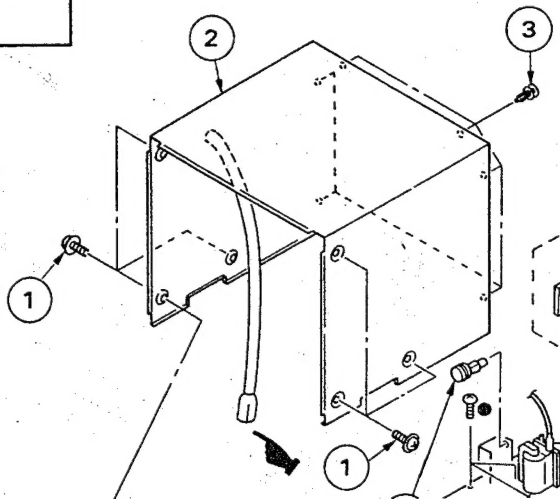
(Fig.-3)

2-1-4. Remove the TOP COVER.

2. SECTION 7 EXPLODED VIEWS

Page 95

7-1. CHASSIS



Incorrect				Correct			
Ref.No.	PART No.	DESCRIPTION	REMARK	Ref.No.	PART No.	DESCRIPTION	REMARK
1	4-847-802-11	SCREW (OS), CASE, CLAW		1	4-847-802-11	SCREW (OS), CASE, CLAW	
2	X-4032-539-2	COVER ASSY, TOP		2	A-1005-294-A	COVER COMPLETE ASSY, TOP	
3	4-391-825-01	RIVET, NYLON		3	4-391-825-01	RIVET, NYLON	
4	*4-043-690-01	BRACKET, MAIN		4	*4-043-690-01	BRACKET, MAIN	
5	*A-1297-469-A	A BOARD, COMPLETE		5	*A-1297-469-A	A BOARD, COMPLETE	

SPECIFICATIONS (PVM-1453MD)

Video signal

Color system	PAL, NTSC
Resolution	600 TV lines
Aperture correction	0 dB – +6.0 dB
Frequency response	LINE 9.0 MHz (–3 dB) RGB 10.0 MHz (–3 dB)
Synchronization	AFC time constant 1.0 msec.

Picture performance

Overscan	20% overscan of CRT effective screen area
Normal scan	7% overscan of CRT effective screen area
Underscan	5% underscan of CRT effective screen area
Linearity	Horizontal: Less than 4% (typical) Vertical: Less than 4% (typical)
Convergence	Central area 0.6 mm (typical) Peripheral area 0.8 mm (typical)
Raster size stability	H 1.0%, V 1.5%
High voltage regulation	3.5%
CRT	EBU phosphor
Color temperature	6500K/5600K/USER (3200K – 10000K, factory setting is 6500K)

Inputs

Y/C IN	4-pin mini DIN connector <i>See the pin assignment on the page 3.</i>
VIDEO IN	BNC connector 1 Vp-p ± 6 dB, sync negative
AUDIO IN	phono jack, –5 dBu, more than 47k ohms
R/R-Y IN, G/Y IN, B/B-Y IN	BNC connector
R, G, B channels	0.7 Vp-p ± 6 dB
Sync on green	1.0 Vp-p Sync negative, 75 ohms terminated
R-Y, B-Y channels	0.7 Vp-p ± 6 dB
Y channel	1.0 Vp-p ± 6 dB (Standard color bar signal of 75% chrominance)
EXT SYNC IN	BNC connector composite sync 4 Vp-p ± 6 dB, negative

Outputs

Y/C OUT	4-pin mini DIN connector, 75 ohms terminated
VIDEO OUT	BNC connector, 75 ohms terminated
AUDIO OUT	phono jack
R/R-Y OUT, G/Y OUT, B/B-Y OUT	BNC connector, 75 ohms terminated
EXT SYNC OUT	BNC connector, 75 ohms terminated
DC OUT	5 V/I A
Speaker output	Output level 0.8 W

Remote input

REMOTE 1	8-pin mini DIN <i>See the pin assignment on the page 4.</i>
RS-232C	9-pin D-sub <i>See the pin assignment on the page 4.</i>

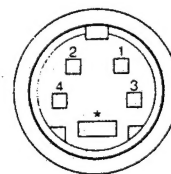
General

Power requirements	100 – 240 V AC, 50/60 Hz 0.9 – 0.4A
Operating temperature range	0 – 35°C
Storage temperature range	–10 – +40°C
Humidity	0 – 90%
Dimensions	Approx. 346 × 340 × 411.5 mm (w/h/d) (13 ³ / ₈ × 13 ¹ / ₂ × 16 ¹ / ₄ inches) not incl. projecting parts and controls
Mass	Approx. 16.7 kg (36 lb 14 oz)
Accessory supplied	AC power cord (1) AC plug holder (1) Splash proof covers (2) Control panel cover (1) Panel hinges (2) Remote Control Connector 8-pin mini DIN (1) Instructions for use (1) Interface Manual for Programmers (1) Quick Reference Card (1) Double-sided Adhesive Tapes (4) Sales Companies Guide (1)

$$0 \text{ dBu} = 0.775 \text{ V r.m.s.}$$

Pin assignment

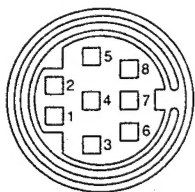
Y/C IN connector (4-pin mini DIN)



Pin No.	Signal	Description
1	Y-input	1 Vp-p, sync negative, 75 ohms
2	CHROMA sub-carrier-input	300 mVp-p, burst Delay time between Y and C: within 0 \pm 100 nsec., 75 ohms
3	GND for Y-input	GND
4	GND for CHROMA-input	GND

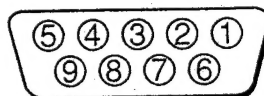
PVM-1353MD/1453MD

REMOTE 1 connector (8-pin mini DIN)



Pin No.	Signal
1	REMOTE ON/OFF
2	LINE A
3	GND
4	LINE B
5	TALLY
6	OVER SCAN
7	RGB A
8	RGB B

RS-232C connector (9-pin D-sub)



Pin No.	Signal
1	—
2	RX
3	TX
4	—
5	GND
6	—
7	RTS
8	CTS
9	—

Design and specifications are subject to change without notice.

(CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK Δ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

ATTENTION!!

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BILNDAGE DU TUBE CATHODIQUE.

ATTENTION!!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÂSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE.

LE CHÂSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MARQUE Δ SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIÉCES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDICÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

SAFETY CHECK-OUT (US Model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the B+ and HV to see if they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
8. Check the metal trim, metallized knobs, screws, and all other exposed metal parts for AC leakage.
Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufactures' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

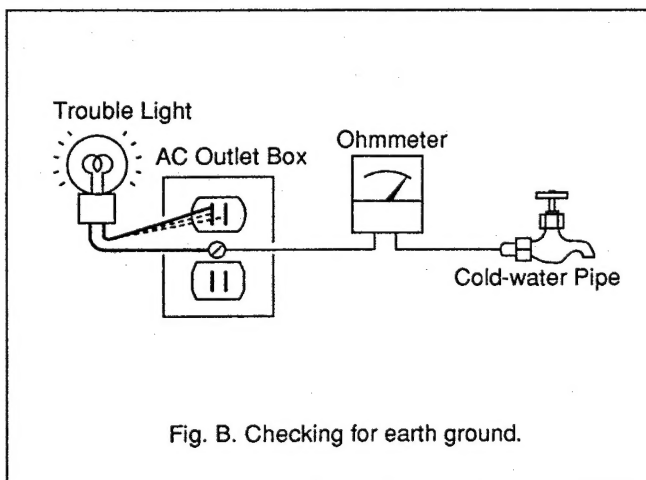
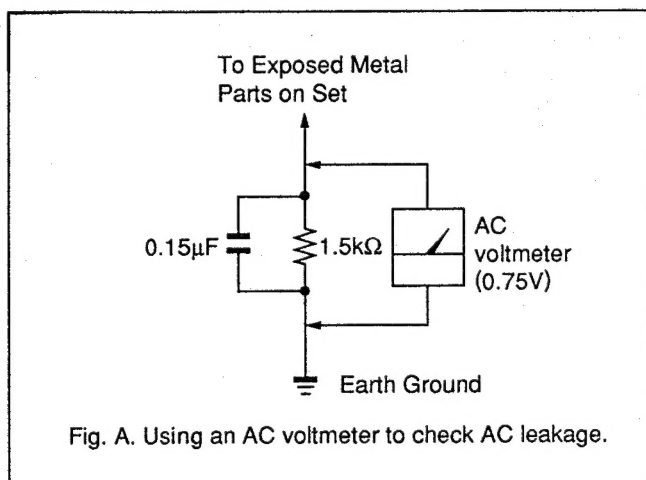


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SECTION 1 GENERAL

1-1. GENERAL OF PVM-1353MD

Features

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

PVM-1353MD

Picture

HR (High Resolution) Trinitron picture tube
HR Trinitron tube provides a high resolution picture. Horizontal resolution is more than 600 TV lines at the center of the picture.

Comb filter

When NTSC video signals are received, a comb filter activates to increase the resolution, resulting in fine picture detail without color spill or color noise.

Beam current feedback circuit

The built-in beam current feedback circuit assures stable white balance.

Inputs

Two color systems available

The monitor can display PAL, and NTSC signals. The appropriate color system is selected automatically.

Analog RGB/component input connectors

Analog RGB or component (Y, R-Y and B-Y) signals from video equipment can be input through these connectors. Press the RGB/COMPONENT A/B select button on the front panel and select RGB or component signals from the on-screen menu.

Y/C input connector (S input connector)

The video signal, split into the chrominance signal (C) and the luminance signal (Y), can be input through this connector, eliminating the interference between the two signals, which tends to occur in a composite video signal, assuring video quality.

External sync input connectors

When the external RGB or component signal is input and sync signal is set to external in the on-screen menu, the monitor can be operated on the sync signal supplied from an external sync generator.

Automatic termination (only terminals with the \sim mark)

The BNC input connectors on the rear panel are terminated at 75 ohms inside, when no cable is connected to the loop-through output connectors. When a cable is connected to an output connector, the 75-ohm termination is automatically released.

Functions

On-screen menus

You can set color temperature, CHROMA SET UP, and other settings by using the on-screen menus.

Overscan mode

The display size is enlarged by approximately 20% and the center part of the screen is easier to watch.

Underscan mode

The signal normally scanned outside of the screen can be monitored in the underscan mode.

Note

When the monitor is in the underscan mode, the dark RGB scanning lines may appear on the top edge of the screen. These are caused by an internal test signal, rather than the input signal.

Split function

The display splits into two parts (upper and lower): The upper part of the screen monitors the signal fed through the RGB/COMPONENT A input connectors and lower part of the screen monitors the signal fed through the RGB/COMPONENT B input connectors. You can compare the two screens.

Caption vision (Closed Caption) decoder

When a signal with Caption Vision is input, the caption is superimposed on the screen. You can select ON or OFF and set the caption type on the on-screen menu.

Auto/manual degaussing

Degaussing of the screen can be performed automatically when the power is turned on, or manually by pressing the DEGAUSS button.

Five menu languages

You can select the language used for on-screen menus from the five languages.

Splash proof cover(s) and control panel cover

Splash proof covers that protect the ventilation holes from splashes (of medicines, etc.) and a control panel cover that protects the control buttons on the front panel from undesired touching are supplied.

Quick Reference Card

The Quick Reference Card is supplied to help you understand the menu configuration and operating method. You can attach the supplied double-sided adhesive tapes on the rear of the card.

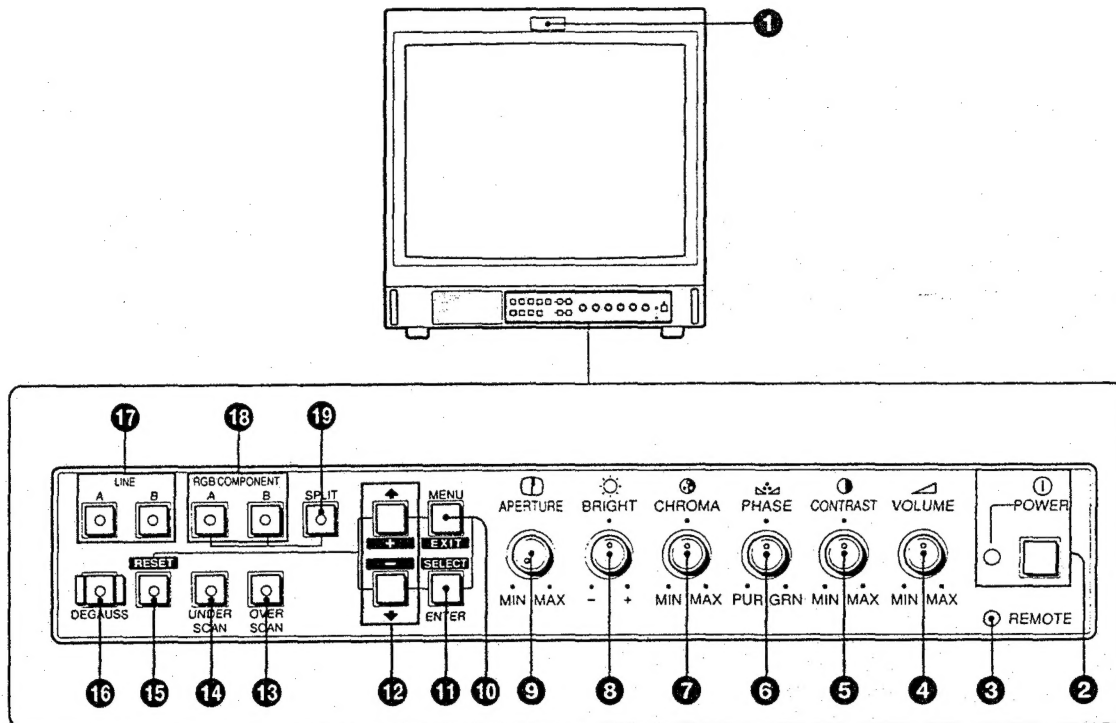
EIA standard 19-inch rack mounting

By using an MB-502B (for PVM-1353MD) or SLR-103 (for PVM-1953MD) Mounting Bracket (not supplied), the monitor can be mounted in an EIA standard 19-inch rack. For details on mounting, see the instruction manual of the mounting bracket kit.

Location and Function of Parts and Controls

PVM-1353MD

Front Panel



1 Tally indicator

This indicator lights up when the video camera connected to this monitor is selected, indicating that the picture is being recorded. The tally control connection is needed.

For the pin assignment, see "Specifications" on page 14.

2 POWER switch and indicator

Depress to turn the monitor on. The indicator will light up in green. To turn the power off, press this again.

3 REMOTE indicator

This indicator lights up in the conditions below:

- When PRESET is set to ON in the menu.
- When REMOTE (RS-232C) is set to REMOTE ONLY or REMOTE & LOCAL in the menu, or
- When REMOTE ON is set via the REMOTE 1 terminal.

4 VOLUME control

Turn this control clockwise or counterclockwise to obtain the desired volume.

5 CONTRAST control

Turn clockwise to make the contrast stronger and counterclockwise to make it weaker.

6 PHASE control

This control is effective only for the NTSC color system. Turn clockwise to make the skin tones greenish and counterclockwise to make them purplish.

7 CHROMA (chrominance) control

Turn clockwise to make the color intensity stronger and counterclockwise to make it weaker.

8 BRIGHT (brightness) control

Turn clockwise for more brightness and counterclockwise for less.

9 APERTURE control

Turn clockwise for more sharpness and counterclockwise for less.

When the control is set to MIN, the picture becomes flat without need for corrections.

Note

The APERTURE, CHROMA, PHASE control settings have no effect on the pictures of RGB signals.

10 MENU (EXIT) button

Press to make the menu appear.

Press to return to the previous screen in the menu.

11 ENTER (SELECT) button

Press to decide a selected item in the menu.

12 (+) / (-) buttons

Press to move the cursor (▶) or adjust selected value in the menus.

13 OVERSCAN button

Press (light on) for overscanning. The display size is extended by approximately 20% so that the center of screen is easier to watch. By pressing the button again, the display returns to the normal size (light off).

14 UNDERSCAN button

Press (light on) for underscanning. The display size is reduced by approximately 5% so that four corners of the raster are visible. By pressing the button again, the display returns to the normal size (light off).

15 RESET button

During menu adjustments, press to reset the setting in the menu.

16 DEGAUSS button

Press this button momentarily. The screen will be demagnetized.
Wait for 10 minutes or more before activating this button again.

Note

The picture rolls vertically while the screen is being demagnetized.

17 LINE A/B select buttons

Press to select a signal (light on).

A: Press to monitor the signal fed through the LINE A input connectors.

B: Press to monitor the signal fed through the LINE B input connectors.

18 RGB/COMPONENT A/B select buttons

Press to select a signal (light on).

A: Press to monitor the signal fed through the RGB/COMPONENT A input connectors.

B: Press to monitor the signal fed through the RGB/COMPONENT B input connectors.

19 SPLIT button

When you select RGB signals fed through the RGB/COMPONENT A and RGB/COMPONENT B input connectors, press this button (light on) to split the display into two parts (upper and lower), and monitor the both RGB signals simultaneously.

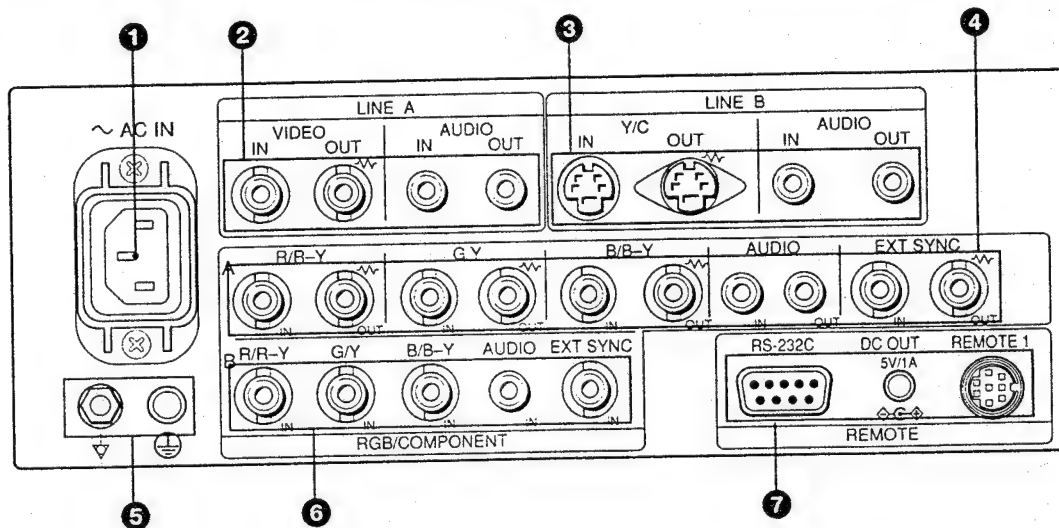
Note

Make sure the signals fed through the RGB/COMPONENT A and RGB/COMPONENT B input connectors are synchronized.

Location and Function of Parts and Controls

PVM-1353MD

Rear Panel



(The \sim mark indicates automatic termination.)

1 AC IN socket

Connect the supplied AC power cord to this socket.

2 LINE A connectors

Line input connectors for the composite video and audio signals and their loop-through output connectors. To monitor the input signal fed through these connectors, press LINE A select button (light on) on the front panel.

VIDEO IN (BNC)

Connect to the video output connector of a video equipment, such as a VTR or a color video camera. For a loop-through connection, connect to the video output connector of another monitor.

VIDEO OUT (BNC)

Loop-through output of the VIDEO IN connector. Connect to the video input connector for a VTR or another monitor.

When the cable is connected to this connector, the 75-ohms termination of the input is automatically released, and the signal input to the VIDEO IN connector is output from this connector.

AUDIO IN (phono jack)

Connect to the audio output connector of a VTR or to a microphone through a suitable microphone amplifier. For a loop-through connection, connect to the audio output connector of another monitor.

AUDIO OUT (phono jack)

Loop-through output of the AUDIO IN connector. Connect to the audio input connector of a VTR or another monitor.

3 LINE B connectors

Separated Y/C input connectors, audio input connectors, and corresponding loop-through output connectors.

To monitor the input signal fed through these connectors, press LINE B select button (light on) on the front panel.

Y/C IN (4-pin mini DIN)

Connect to the Y/C separate output connector of a VTR, video camera or other video equipment.

Y/C OUT (4-pin mini DIN)

Loop-through output of the Y/C IN connector. Connect to the Y/C separate input connector of a VTR or another monitor.

When the cable is connected to this connector, the 75-ohms termination of the input is automatically released, and the signal input to the Y/C IN connector is output from this connector.

AUDIO IN (phono jack)

Connect to the audio output connector of a VTR or to a microphone through a suitable microphone amplifier. For a loop-through connection, connect to the audio output connector of another monitor.

AUDIO OUT (phono jack)

Loop-through output of the AUDIO IN connector. Connect to the audio input connector of a VTR or another monitor.

4 RGB/COMPONENT A connectors

RGB signal or component signal input connectors and their loop-through output connectors.

To monitor the input signal fed through these connectors, press the RGB/COMPONENT A select button (light on) on the front panel.

Then select one out of four items in the RGB A SYSTEM menu to set the RGB or COMP (component) signal and the INT SYNC (internal sync) or EXT SYNC (external sync) signal.

For the operation through the menus, see pages 8 to 10.

R/R-Y IN, G/Y IN, B/B-Y IN (BNC)

When "RGB-INT SYNC" or "COMP-INT SYNC" is selected in the RGB A SYSTEM menu, the monitor operates on the sync signal from the G/Y channel.

To monitor the RGB signal

Connect to the analog RGB signal output connectors of a video camera.

To monitor the component signal

Connect to the R-Y/Y/B-Y component signal output connectors of a Sony Betacam SP™ camcorder.

R/R-Y OUT, G/Y OUT, B/B-Y OUT (BNC)

Loop-through outputs of the R/R-Y IN, G/Y IN, B/B-Y IN connectors.

When the cables are connected to these connectors, the 75-ohms termination of the inputs is automatically released, and the signal inputs to the R/R-Y IN, G/Y IN, B/B-Y IN connectors are output from these connectors.

To output the analog RGB signal

Connect to the analog RGB signal input connectors of a video printer or another monitor.

To output the component signal

Connect to the R-Y/Y/B-Y component signal input connectors of a Sony Betacam SP VTR.

AUDIO IN (phono jack)

Connect to the audio output connector of video equipment when the analog RGB or component signal is input.

AUDIO OUT (phono jack)

Loop-through outputs of the AUDIO IN connector.

EXT SYNC (external sync) IN (BNC)

When this monitor operates on an external sync signal, connect the signal from a sync generator to this connector.

To use the sync signal fed through this connector, select "RGB-EXT SYNC" or "COMP-EXT SYNC" in the RGB A SYSTEM menu.

EXT SYNC (external sync) OUT (BNC)

Loop-through output of the EXT SYNC IN connector. Connect to the external sync input connector of video equipment to be synchronized with this monitor. When the cable is connected to this connector, the 75-ohms termination of the input is released, and the signal input to the EXT SYNC IN connector is output from this connector.

5 Ground (⏏/⊕) terminal

Connect a GND cable.

6 RGB/COMPONENT B connectors

RGB signal or component signal input connectors.

To monitor the input signal fed through these connectors, press the RGB/COMPONENT B select button (light on) on the front panel.

Then select one out of four items in the RGB B SYSTEM menu to set the RGB or COMP (component) signal and the INT SYNC (internal sync) or EXT SYNC (external sync) signal.

For the operation through the menus, see pages 8 to 10.

R/R-Y IN, G/Y IN, B/B-Y IN (BNC)

When "RGB-INT SYNC" or "COMP-INT SYNC" is selected in the RGB B SYSTEM menu, the monitor operates on the sync signal from the G/Y channel.

To monitor the RGB signal

Connect to the analog RGB signal output connectors of a video camera.

To monitor the component signal

Connect to the R-Y/Y/B-Y component signal output connectors of a Sony Betacam SP camcorder.

AUDIO IN (phono jack)

Connect to the audio output connector of video equipment when the analog RGB or component signal is input.

EXT SYNC (external sync) IN (BNC)

When this monitor operates on an external sync signal, connect the signal from a sync generator to this connector.

To use the sync signal fed through this connector, select "RGB-EXT SYNC" or "COMP-EXT SYNC" in the RGB B SYSTEM menu.

7 REMOTE connectors**RS-232C (D-sub 9-pin)**

Connect to the RS-232C control connector of other equipment. You can operate the monitor with the control command from the equipment.

For the details, see the supplied Interface Manual for Programmers.

REMOTE 1 (8-pin mini DIN)

Connect to the tally output connector of a control console, effects, etc. The tally indicator on the front panel will be turned on and off by the connected equipment.

You can also connect a remote controller using this connector.

For the pin assignments of these connectors, see "Specifications" on page 2.

DC OUT 5V/1A connector

You can use this connector as a power source for the other equipment.

DC 5V/1A is output.

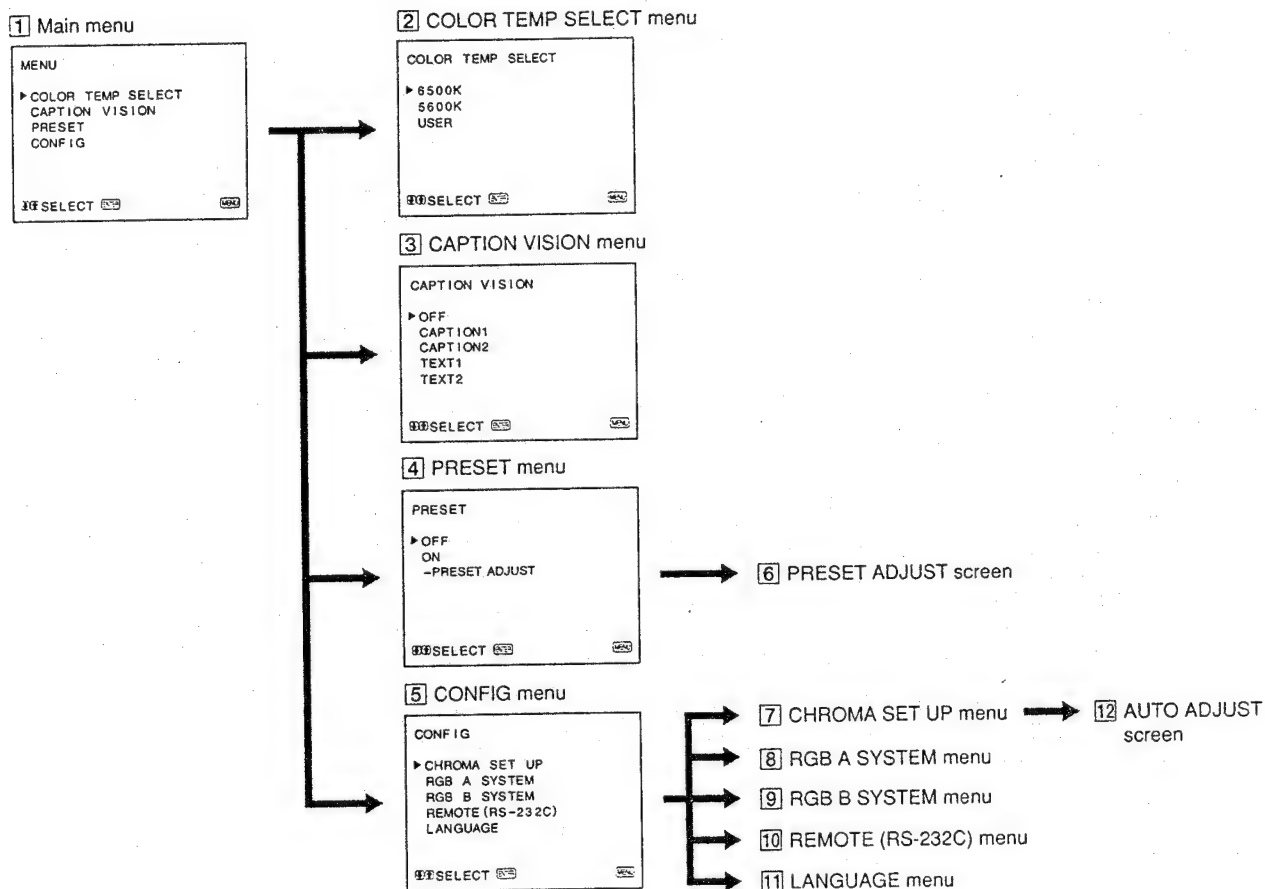
Using On-Screen Menus

PVM-1353MD

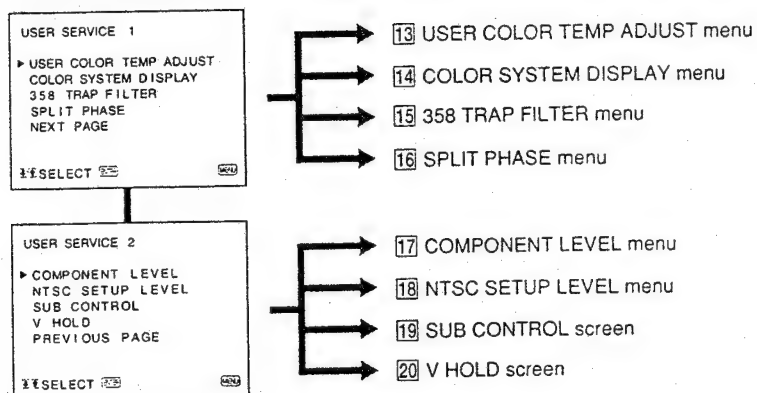
Menu Configuration

The flow chart shows the different levels of on-screen menus that you can use to make various adjustments and settings.

For details of each menu, see pages 9 and 10.



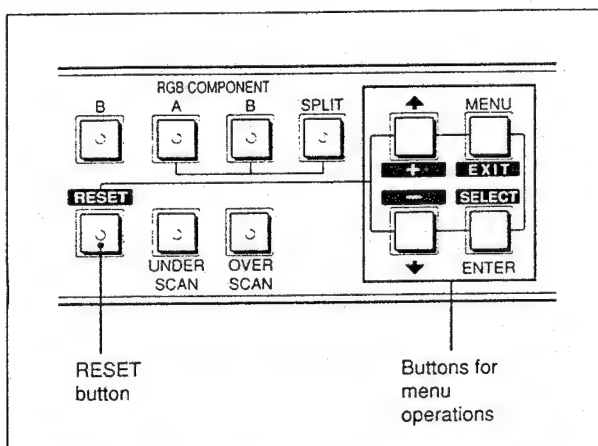
User Service Mode



Operating through Menus

There are five buttons for menu operations on the front panel of the monitor. To display the main menu, first press MENU (EXIT). The buttons you can use appear at the bottom of the menu screen.

Functions of the buttons



Button	To select menu item	To adjust selected menu item
MENU EXIT	return to the previous menu.	return to the previous menu.
ENTER SELECT	decide a selected item.	select an item.
↑ +	move the cursor (►) upwards.	increase selected value.
↓ -	move the cursor (►) downwards.	decrease selected value.
RESET		reset current adjustment value to the factory setting.

(The above items in white type correspond to the marks in the menu.)

The Contents of Menu Items

The following sentences show the details of each menu items.

[] indicates the factory setting position.

1 Main menu

Select an item and press the ENTER (SELECT) button to go to the following menu.

2 COLOR TEMP SELECT menu

Select the color temperature from among 6500K, 5600K and USER. USER is set to 6500K in the factory setting. You can adjust or change the color temperature in USER mode (a measuring instrument is needed).

[6500K]

Note

The color temperature of the USER mode can be adjusted in the range from 3200K to 10000K. You can adjust the color temperature of the USER mode in the USER COLOR TEMP ADJUST menu (13) of the user service mode. For the details, see "USER COLOR TEMP ADJUST menu (13)" on page 10.

3 CAPTION VISION menu

To display closed captions, select ON and the type of caption you would like.

[OFF]

4 PRESET menu

You can preset each control to a desired level and set it. If you set PRESET to ON, the REMOTE indicator lights up and the controls on the front panel do not work. The monitor operates with the internal memory settings. For adjustment, select the PRESET ADJUST screen.

[OFF]

5 CONFIG menu

Select an item for adjustment of the monitor.

6 PRESET ADJUST screen

Adjust CONTRAST, BRIGHT, CHROMA, PHASE, VOLUME, APERTURE in the PRESET menu.

7 CHROMA SET UP menu

Set to ON to adjust the internal decoder for CHROMA and PHASE (NTSC signal only) after AUTO ADJUST screen (12).

[OFF]

8 RGB A SYSTEM menu

To monitor the signal fed through the RGB/COMPONENT A connectors, set the RGB or COMP (component) signal and the INT SYNC (internal sync) or EXT SYNC (external sync) signal in this menu.

[RGB-INT SYNC]

Using On-Screen Menus

PVM-1353MD

9 RGB B SYSTEM menu

To monitor the signal fed through the RGB/COMPONENT B connectors, set the RGB or COMP (component) signal and the INT SYNC (internal sync) or EXT SYNC (external sync) signal in this menu.
[RGB-INT SYNC]

10 REMOTE (RS-232C) menu

Select one out of following three modes.

REMOTE OFF:

You can adjust settings and controls by the buttons and controls on the front panel.

RS-232C connector does not function.

REMOTE ONLY:

You can adjust settings and controls through the RS-232C connector.

Buttons and controls on the front panel, except the menu operation ones, do not function.

REMOTE & LOCAL:

You can adjust settings and controls both through the RS-232C connector and the front panel buttons.

Controls on the front panel do not function.

[REMOTE OFF]

11 LANGUAGE menu

You can select the language used for on-screen menus from the following five languages (English, German, French, Italian, Spanish).

[ENGLISH]

12 AUTO ADJUST screen

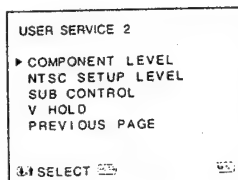
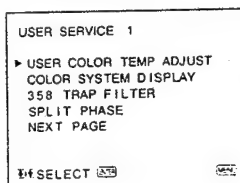
Select the color bar signal (full, SMPTE, EIA) and press the ENTER (SELECT) button to start automatic adjustment for CHROMA and PHASE. For these adjustments to be valid, you must select ON in CHROMA SET UP menu ([7]).

User Service Mode

The user service mode is useful when adjusting the settings and controls except for the above.

To enter the user service mode, press and hold the MENU (EXIT) button until the following USER SERVICE 1 appears.

To move to the second page of the mode, select "NEXT PAGE" and to return to the first page of the menu, select "PREVIOUS PAGE".



13 USER COLOR TEMP ADJUST menu

The value of adjustment in this menu works only when "USER" is selected in the COLOR TEMP SELECT menu ([2]).

ADJUST GAIN:

Adjusts the color balance (gain) of the USER mode.

ADJUST BIAS:

Adjusts the color balance (bias) of the USER mode.

COLOR TEMP RANGE:

When you adjust the color temperature in the USER mode, select a color temperature range before adjusting ADJUST GAIN and ADJUST BIAS. If the adjusted color temperature is between 3200K and 5000K, select "3200K-5000K." If the adjusted color temperature is between 5000K and 10000K, select "5000K-10000K."

[5000K-10000K]

14 COLOR SYSTEM DISPLAY menu

Select the color system display mode. In AUTO, the kind of color system being used appears on the screen each time you change the signal input. [AUTO]

15 358 TRAP FILTER menu

Color spill or color noise may be eliminated if you select ON (NTSC signal only). Normally set it to OFF. [OFF]

16 SPLIT PHASE menu

When the SPLIT function is activated, if the lower side picture (the signal fed through the RGB/COMPONENT B input connectors) has some discrepancy of location with the upper side picture, adjust the SPLIT PHASE menu.

Each time you press the ↑(+) button, the lower side picture moves left.

Note

When the adjustment is made in the menu, the skew error will occur on the top of the lower side picture.

17 COMPONENT LEVEL menu

Select the component level from among three modes.

N10/SMPTE: for 100/0/100/0 signal

BETA 7.5: for 100/7.5/75/7.5 signal

BETA 0: for 100/0/75/0 signal [BETA 7.5]

18 NTSC SETUP LEVEL menu

Select the NTSC setup level from two modes. The 7.5 setup level is mainly used in north America. The 0 setup level is mainly used in Japan. [7.5]

19 SUB CONTROL screen

You can finely adjust the controls on the front panel. CONTRAST, PHASE, CHROMA and BRIGHT controls have clicks at the center of their adjustment range. You can adjust the setting of the click position with this feature.

20 V HOLD screen

Adjust the vertical hold if the picture rolls vertically.

Note

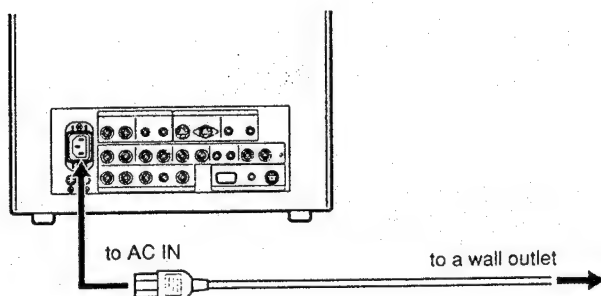
If the rolling of the picture prevents you from watching the screen, select an input that has nothing connected.

Power Sources

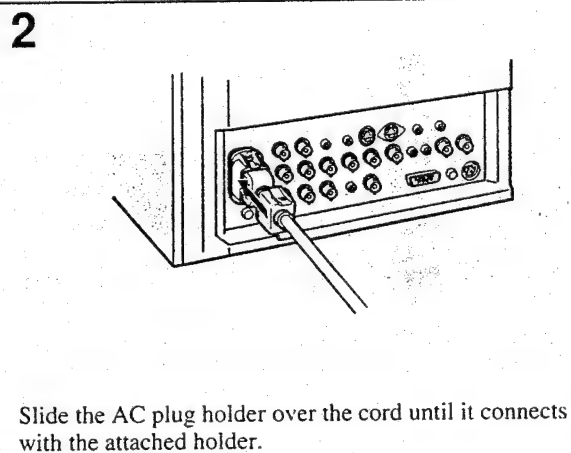
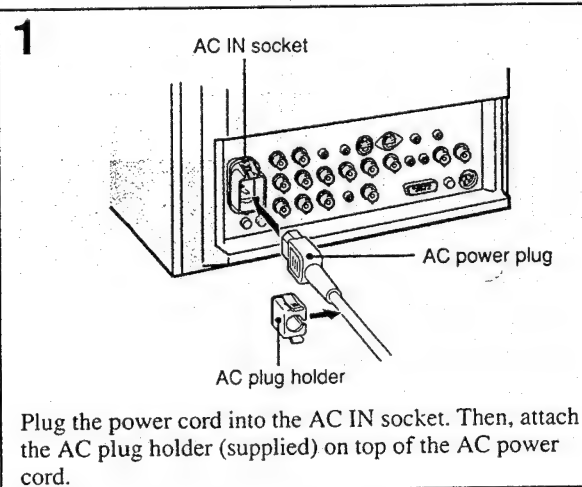
PVM-1353MD

House Current

Connect the supplied AC power cord to the AC IN socket on the rear panel and to a wall outlet.



To connect an AC power cord securely with the AC plug holder



To remove the AC power cord

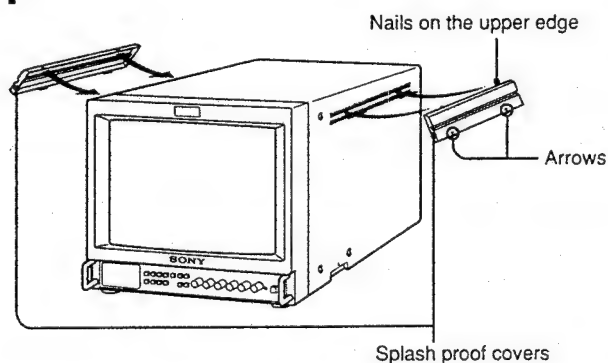
Pull out AC plug holder by squeezing the up and down sides.

Attaching the Splash Proof Covers

PVM-1353MD

In order to protect the ventilation holes from splashes (of medicines, etc.), attach the splash proof covers (supplied) as shown below.

1

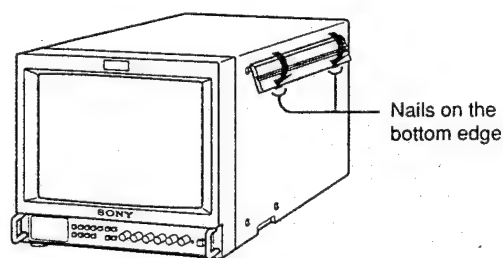


Making sure the arrows on the cover are facing down, hook the nails on the upper edge into the ventilation holes.

Note

Attach the splash proof covers to all them ventilation holes.

2

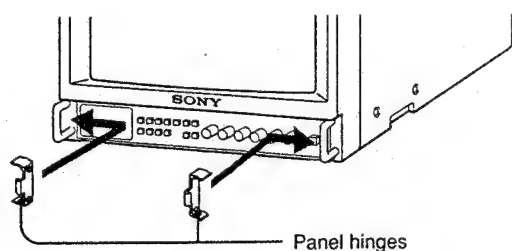


Push up the nails on the bottom edge and fit the cover into the lowest ventilation holes. Attach the both covers to the left and right sides.

Attaching the Control Panel Cover

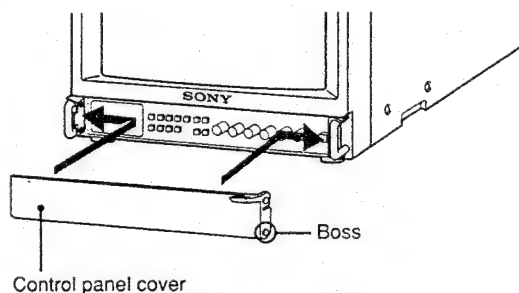
In order to protect the control buttons on the front panel from undesired touching, attach the supplied control panel cover.

1



Attach the panel hinges to the left and right grips from the inner side.

2



Fit the bosses on the both sides of the control panel cover into the lower holes of the panel hinges with bending the control panel cover a little.

Features

PVM-1453MD

Picture

HR (High Resolution) Trinitron picture tube
HR Trinitron tube provides a high resolution picture. Horizontal resolution is more than 600 TV lines at the center of the picture.

Comb filter

When NTSC video signals are received, a comb filter activates to increase the resolution, resulting in fine picture detail without color spill or color noise.

Beam current feedback circuit

The built-in beam current feedback circuit assures stable white balance.

Inputs

Two color systems available

The monitor can display PAL, and NTSC signals. The appropriate color system is selected automatically.

Analog RGB/component input connectors

Analog RGB or component (Y, R-Y and B-Y) signals from video equipment can be input through these connectors. Press the RGB/COMPONENT A/B select button on the front panel and select RGB or component signals from the on-screen menu.


Y/C input connector (S input connector)

The video signal, split into the chrominance signal (C) and the luminance signal (Y), can be input through this connector, eliminating the interference between the two signals, which tends to occur in a composite video signal, assuring video quality.

External sync input connectors

When the external RGB or component signal is input and sync signal is set to external in the on-screen menu, the monitor can be operated on the sync signal supplied from an external sync generator.

Automatic termination

(only terminals with the  mark)

The BNC input connectors on the rear panel are terminated at 75 ohms inside, when no cable is connected to the loop-through output connectors. When a cable is connected to an output connector, the 75-ohm termination is automatically released.

Functions

On-screen menus

You can set color temperature, CHROMA SET UP, and other settings by using the on-screen menus.

Overscan mode

The display size is enlarged by approximately 20% and the center part of the screen is easier to watch.

Underscan mode

The signal normally scanned outside of the screen can be monitored in the underscan mode.

Note

When the monitor is in the underscan mode, the dark RGB scanning lines may appear on the top edge of the screen. These are caused by an internal test signal, rather than the input signal.

Split function

The display splits into two parts (upper and lower). The upper part of the screen monitors the signal fed through the RGB/COMPONENT A input connectors and lower part of the screen monitors the signal fed through the RGB/COMPONENT B input connectors. You can compare the two screens.

Auto/manual degaussing

Degaussing of the screen can be performed automatically when the power is turned on, or manually by pressing the DEGAUSS button.

Five menu languages

You can select the language used for on-screen menus from the five languages.

Splash proof cover(s) and control panel cover

Splash proof covers that protect the ventilation holes from splashes (of medicines, etc.) and a control panel cover that protects the control buttons on the front panel from undesired touching are supplied.

Quick Reference Card

The Quick Reference Card is supplied to help you understand the menu configuration and operating method. You can attach the supplied double-sided adhesive tapes on the rear of the card.

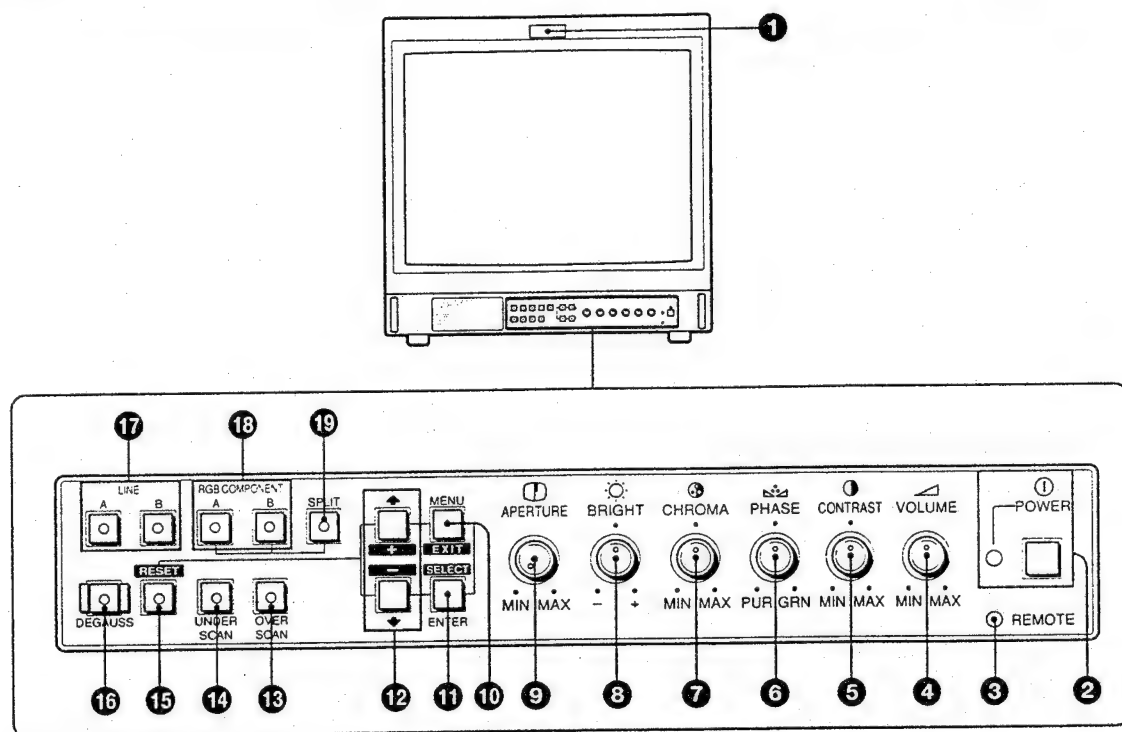
EIA standard 19-inch rack mounting

By using an MB-502B (for PVM-1453MD) or SLR-103 (for PVM-2053MD) Mounting Bracket (not supplied), the monitor can be mounted in an EIA standard 19-inch rack. For details on mounting, see the instruction manual of the mounting bracket kit.

Location and Function of Parts and Controls

PVM-1453MD

Front Panel



1 Tally indicator

This indicator lights up when the video camera connected to this monitor is selected, indicating that the picture is being recorded. The tally control connection is needed. For the pin assignment, see "Specifications" on page 16.

2 1 POWER switch and indicator

Depress to turn the monitor on. The indicator will light up in green. To turn the power off, press this again.

3 REMOTE indicator

This indicator lights up in the conditions below:

- When PRESET is set to ON in the menu.
- When REMOTE (RS-232C) is set to REMOTE ONLY or REMOTE & LOCAL in the menu, or
- When REMOTE ON is set via the REMOTE 1 terminal.

4 VOLUME control

Turn this control clockwise or counterclockwise to obtain the desired volume.

5 CONTRAST control

Turn clockwise to make the contrast stronger and counterclockwise to make it weaker.

6 PHASE control

This control is effective only for the NTSC color system. Turn clockwise to make the skin tones greenish and counterclockwise to make them purplish.

7 CHROMA (chrominance) control

Turn clockwise to make the color intensity stronger and counterclockwise to make it weaker.

8 BRIGHT (brightness) control

Turn clockwise for more brightness and counterclockwise for less.

9 APERTURE control

Turn clockwise for more sharpness and counterclockwise for less. When the control is set to MIN, the picture becomes flat without need for corrections.

Note

The APERTURE, CHROMA, PHASE control settings have no effect on the pictures of RGB signals.

10 MENU (EXIT) button

Press to make the menu appear. Press to return to the previous screen in the menu.

11 ENTER (SELECT) button

Press to decide a selected item in the menu.

12 ↑ (+) / ↓ (-) buttons

Press to move the cursor (▶) or adjust selected value in the menus.

13 OVERSCAN button

Press (light on) for overscanning. The display size is extended by approximately 20% so that the center of screen is easier to watch. By pressing the button again, the display returns to the normal size (light off).

14 UNDERSCAN button

Press (light on) for underscanning. The display size is reduced by approximately 5% so that four corners of the raster are visible. By pressing the button again, the display returns to the normal size (light off).

15 RESET button

During menu adjustments, press to reset the setting in the menu.

16 DEGAUSS button

Press this button momentarily. The screen will be demagnetized.
Wait for 10 minutes or more before activating this button again.

Note

The picture rolls vertically while the screen is being demagnetized.

17 LINE A/B select buttons

Press to select a signal (light on).

A: Press to monitor the signal fed through the LINE A input connectors.

B: Press to monitor the signal fed through the LINE B input connectors.

18 RGB/COMPONENT A/B select buttons

Press to select a signal (light on).

A: Press to monitor the signal fed through the RGB/COMPONENT A input connectors.

B: Press to monitor the signal fed through the RGB/COMPONENT B input connectors.

19 SPLIT button

When you select RGB signals fed through the RGB/COMPONENT A and RGB/COMPONENT B input connectors, press this button (light on) to split the display into two parts (upper and lower), and monitor the both RGB signals simultaneously.

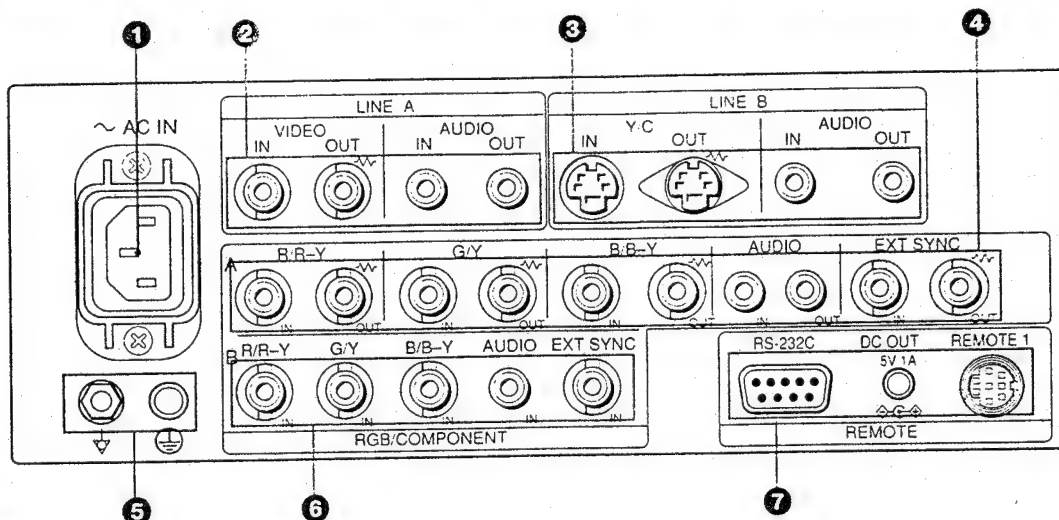
Note

Make sure the signals fed through the RGB/COMPONENT A and RGB/COMPONENT B input connectors are synchronized.

Location and Function of Parts and Controls

PVM-1453MD

Rear Panel



Note

Before connecting the video equipment, see "Important safeguards/notices for use in the medical environments" on page 3.

(The \sim mark indicates automatic termination.)

1 AC IN socket

Connect the supplied AC power cord to this socket.

2 LINE A connectors

Line input connectors for the composite video and audio signals and their loop-through output connectors. To monitor the input signal fed through these connectors, press LINE A select button (light on) on the front panel.

VIDEO IN (BNC)

Connect to the video output connector of a video equipment, such as a VTR or a color video camera. For a loop-through connection, connect to the video output connector of another monitor.

VIDEO OUT (BNC)

Loop-through output of the VIDEO IN connector. Connect to the video input connector for a VTR or another monitor.

When the cable is connected to this connector, the 75-ohms termination of the input is automatically released, and the signal input to the VIDEO IN connector is output from this connector.

AUDIO IN (phono jack)

Connect to the audio output connector of a VTR or to a microphone through a suitable microphone amplifier. For a loop-through connection, connect to the audio output connector of another monitor.

AUDIO OUT (phono jack)

Loop-through output of the AUDIO IN connector. Connect to the audio input connector of a VTR or another monitor.

3 LINE B connectors

Separated Y/C input connectors, audio input connectors, and corresponding loop-through output connectors.

To monitor the input signal fed through these connectors, press LINE B select button (light on) on the front panel.

Y/C IN (4-pin mini DIN)

Connect to the Y/C separate output connector of a VTR, video camera or other video equipment.

Y/C OUT (4-pin mini DIN)

Loop-through output of the Y/C IN connector. Connect to the Y/C separate input connector of a VTR or another monitor.

When the cable is connected to this connector, the 75-ohms termination of the input is automatically released, and the signal input to the Y/C IN connector is output from this connector.

AUDIO IN (phono jack)

Connect to the audio output connector of a VTR or to a microphone through a suitable microphone amplifier. For a loop-through connection, connect to the audio output connector of another monitor.

AUDIO OUT (phono jack)

Loop-through output of the AUDIO IN connector. Connect to the audio input connector of a VTR or another monitor.

4 RGB/COMPONENT A connectors

RGB signal or component signal input connectors and their loop-through output connectors.

To monitor the input signal fed through these connectors, press the RGB/COMPONENT A select button (light on) on the front panel.

Then select one out of four items in the RGB A SYSTEM menu to set the RGB or COMP (component) signal and the INT SYNC (internal sync) or EXT SYNC (external sync) signal.

For the operation through the menus, see pages 10 to 12.

R/R-Y IN, G/Y IN, B/B-Y IN (BNC)

When "RGB-INT SYNC" or "COMP-INT SYNC" is selected in the RGB A SYSTEM menu, the monitor operates on the sync signal from the G/Y channel.

To monitor the RGB signal

Connect to the analog RGB signal output connectors of a video camera.

To monitor the component signal

Connect to the R-Y/Y/B-Y component signal output connectors of a Sony Betacam SPT™ camcorder.

R/R-Y OUT, G/Y OUT, B/B-Y OUT (BNC)

Loop-through outputs of the R/R-Y IN, G/Y IN, B/B-Y IN connectors.

When the cables are connected to these connectors, the 75-ohms termination of the inputs is automatically released, and the signal inputs to the R/R-Y IN, G/Y IN, B/B-Y IN connectors are output from these connectors.

To output the analog RGB signal

Connect to the analog RGB signal input connectors of a video printer or another monitor.

To output the component signal

Connect to the R-Y/Y/B-Y component signal input connectors of a Sony Betacam SP VTR.

AUDIO IN (phono jack)

Connect to the audio output connector of video equipment when the analog RGB or component signal is input.

AUDIO OUT (phono jack)

Loop-through outputs of the AUDIO IN connector.

EXT SYNC (external sync) IN (BNC)

When this monitor operates on an external sync signal, connect the signal from a sync generator to this connector.

To use the sync signal fed through this connector, select "RGB-EXT SYNC" or "COMP-EXT SYNC" in the RGB A SYSTEM menu.

EXT SYNC (external sync) OUT (BNC)

Loop-through output of the EXT SYNC IN connector.

Connect to the external sync input connector of video equipment to be synchronized with this monitor.

When the cable is connected to this connector, the 75-ohms termination of the input is released, and the signal input to the EXT SYNC IN connector is output from this connector.

5 Ground (⏏/⏚) terminal

Connect a GND cable.

6 RGB/COMPONENT B connectors

RGB signal or component signal input connectors.

To monitor the input signal fed through these connectors, press the RGB/COMPONENT B select button (light on) on the front panel.

Then select one out of four items in the RGB B SYSTEM menu to set the RGB or COMP (component) signal and the INT SYNC (internal sync) or EXT SYNC (external sync) signal.

For the operation through the menus, see pages 10 to 12.

R/R-Y IN, G/Y IN, B/B-Y IN (BNC)

When "RGB-INT SYNC" or "COMP-INT SYNC" is selected in the RGB B SYSTEM menu, the monitor operates on the sync signal from the G/Y channel.

To monitor the RGB signal

Connect to the analog RGB signal output connectors of a video camera.

To monitor the component signal

Connect to the R-Y/Y/B-Y component signal output connectors of a Sony Betacam SP camcorder.

AUDIO IN (phono jack)

Connect to the audio output connector of video equipment when the analog RGB or component signal is input.

EXT SYNC (external sync) IN (BNC)

When this monitor operates on an external sync signal, connect the signal from a sync generator to this connector.

To use the sync signal fed through this connector, select "RGB-EXT SYNC" or "COMP-EXT SYNC" in the RGB B SYSTEM menu.

7 REMOTE connectors**RS-232C (D-sub 9-pin)**

Connect to the RS-232C control connector of other equipment. You can operate the monitor with the control command from the equipment.

For the details, see the supplied Interface Manual for Programmers.

REMOTE 1 (8-pin mini DIN)

Connect to the tally output connector of a control console, effects, etc. The tally indicator on the front panel will be turned on and off by the connected equipment.

You can also connect a remote controller using this connector.

For the pin assignments of these connectors, see "Specifications" on page 4.

DC OUT 5V/1A connector

You can use this connector as a power source for the other equipment.

DC 5V/1A is output.

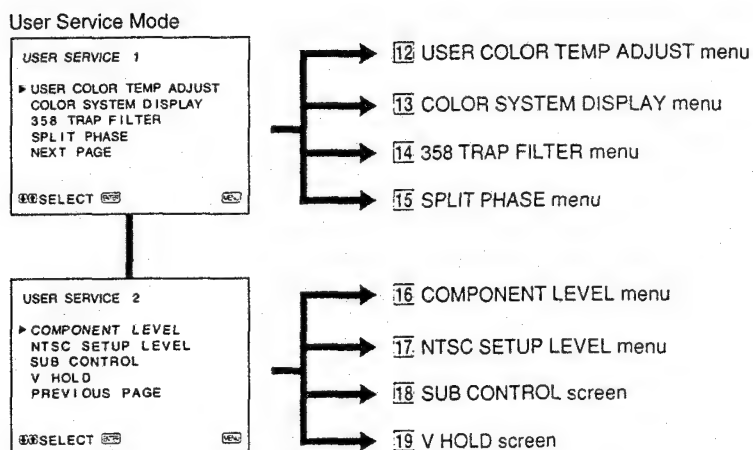
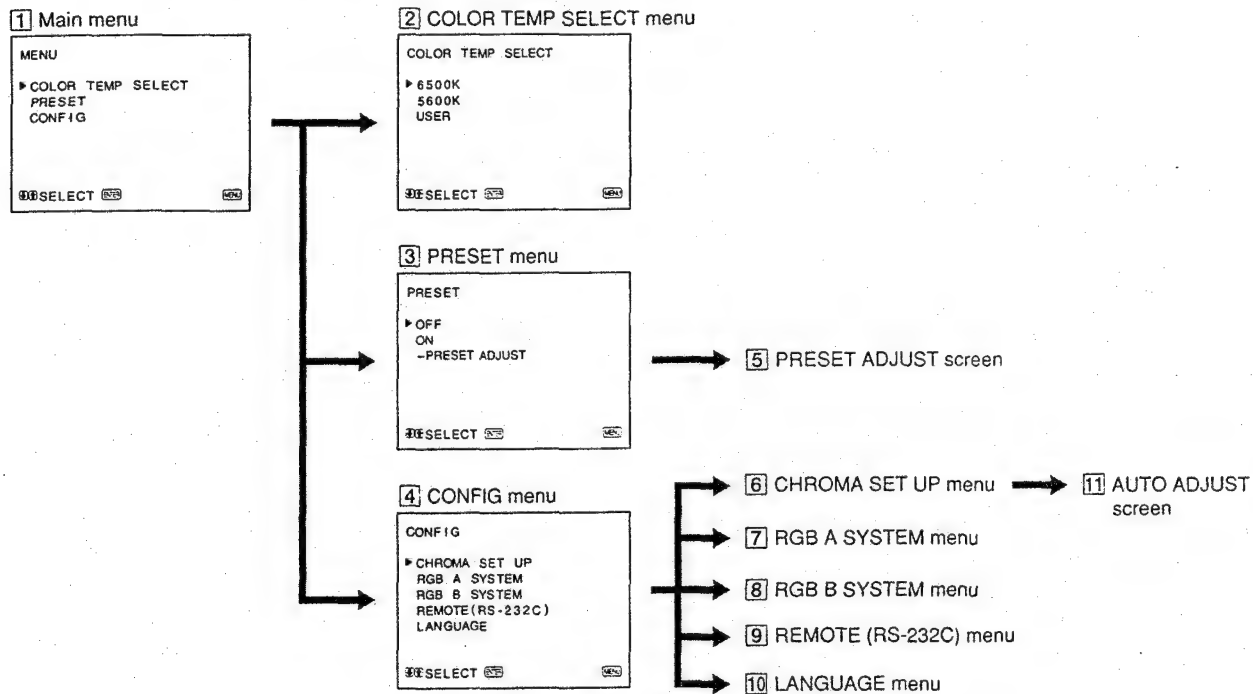
Using On-Screen Menus

PVM-1453MD

Menu Configuration

The flow chart shows the different levels of on-screen menus that you can use to make various adjustments and settings.

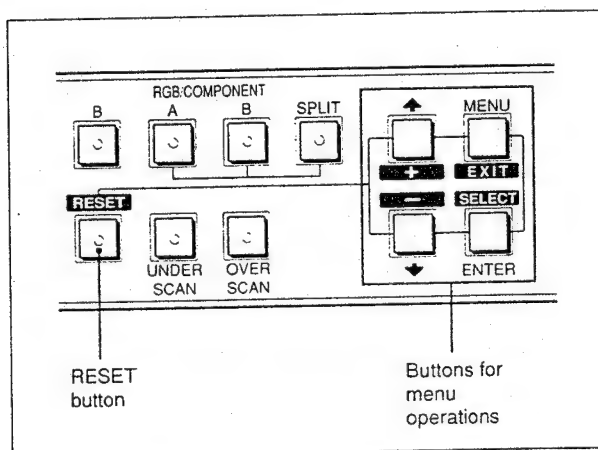
For details of each menu, see pages 11 and 12.



Operating through Menus

There are five buttons for menu operations on the front panel of the monitor. To display the main menu, first press MENU (EXIT). The buttons you can use appear at the bottom of the menu screen.

Functions of the buttons



Button	To select menu item	To adjust selected menu item
MENU EXIT	return to the previous menu.	return to the previous menu.
ENTER SELECT	decide a selected item.	select an item.
↑ +	move the cursor (▶) upwards.	increase selected value.
↓ -	move the cursor (▶) downwards.	decrease selected value.
RESET		reset current adjustment value to the factory setting.

(The above items in white type correspond to the marks in the menu.)

The Contents of Menu Items

The following sentences show the details of each menu items.

| | indicates the factory setting position.

1 Main menu

Select an item and press the ENTER (SELECT) button to go to the following menu.

2 COLOR TEMP SELECT menu

Select the color temperature from among 6500K, 5600K and USER. USER is set to 6500K in the factory setting. You can adjust or change the color temperature in USER mode (a measuring instrument is needed).

[6500K]

Note

The color temperature of the USER mode can be adjusted in the range from 3200K to 10000K. You can adjust the color temperature of the USER mode in the USER COLOR TEMP ADJUST menu (12) of the user service mode.

For the details, see *USER COLOR TEMP ADJUST menu (12)* on page 12.

3 PRESET menu

You can preset each control to a desired level and set it. If you set PRESET to ON, the REMOTE indicator lights up and the controls on the front panel do not work. The monitor operates with the internal memory settings. For adjustment, select the PRESET ADJUST screen.

[OFF]

4 CONFIG menu

Select an item for adjustment of the monitor.

5 PRESET ADJUST screen

Adjust CONTRAST, BRIGHT, CHROMA, PHASE, VOLUME, APERTURE in the PRESET menu.

6 CHROMA SET UP menu

Set to ON to adjust the internal decoder for CHROMA and PHASE (NTSC signal only) after AUTO ADJUST screen (11).

[OFF]

7 RGB A SYSTEM menu

To monitor the signal fed through the RGB/COMPONENT A connectors, set the RGB or COMP (component) signal and the INT SYNC (internal sync) or EXT SYNC (external sync) signal in this menu.

[RGB-INT SYNC]

8 RGB B SYSTEM menu

To monitor the signal fed through the RGB/COMPONENT B connectors, set the RGB or COMP (component) signal and the INT SYNC (internal sync) or EXT SYNC (external sync) signal in this menu.

[RGB-INT SYNC]

Using On-Screen Menus

PVM-1453MD

9 REMOTE (RS-232C) menu

Select one out of following three modes.

REMOTE OFF:

You can adjust settings and controls by the buttons and controls on the front panel.

The RS-232C connector does not function.

REMOTE ONLY:

You can adjust settings and controls through the RS-232C connector.

Buttons and controls on the front panel, except the menu operation ones, do not function.

REMOTE & LOCAL:

You can adjust settings and controls both through the RS-232C connector and the front panel buttons.

Controls on the front panel do not function.

[REMOTE OFF]

10 LANGUAGE menu

You can select the language used for on-screen menus from the following five languages (English, German, French, Italian, Spanish).

[ENGLISH]

11 AUTO ADJUST screen

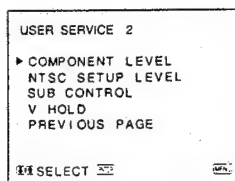
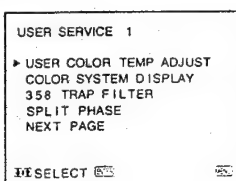
Select the color bar signal (full, SMPTE, EIA) and press the ENTER (SELECT) button to start automatic adjustment for CHROMA and PHASE. For these adjustments to be valid, you must select ON in CHROMA SET UP menu ([6]).

User Service Mode

The user service mode is useful when adjusting the settings and controls except for the above.

To enter the user service mode, press and hold the MENU (EXIT) button until the following USER SERVICE 1 appears.

To move to the second page of the mode, select "NEXT PAGE" and to return to the first page, select "PREVIOUS PAGE".



12 USER COLOR TEMP ADJUST menu

The value of adjustment in this menu works only when "USER" is selected in the COLOR TEMP SELECT menu ([2]).

ADJUST GAIN:

Adjusts the color balance (gain) of the USER mode.

ADJUST BIAS:

Adjusts the color balance (bias) of the USER mode.

COLOR TEMP RANGE:

When you adjust the color temperature in the USER mode, select a color temperature range before adjusting ADJUST GAIN and ADJUST BIAS. If the adjusted color temperature is between 3200K and 5000K, select "3200K-5000K." If the adjusted color temperature is between 5000K and 10000K, select "5000K-10000K."

[5000K-10000K]

13 COLOR SYSTEM DISPLAY menu

Select the color system display mode. In AUTO, the kind of color system being used appears on the screen each time you change the signal input.

[AUTO]

14 358 TRAP FILTER menu

Color spill or color noise may be eliminated if you select ON (NTSC signal only). Normally set it to OFF.

[OFF]

15 SPLIT PHASE menu

When the SPLIT function is activated, if the lower side picture (the signal fed through the RGB/COMPONENT B input connectors) has some discrepancy of location with the upper side picture, adjust the SPLIT PHASE menu.

Each time you press the ↑(+) button, the lower side picture moves left.

Note

When the adjustment is made in the menu, the skew error will occur on the top of the lower side picture.

16 COMPONENT LEVEL menu

Select the component level from among three modes.

N10/SMPTE: for 100/0/100/0 signal

BETA 7.5: for 100/7.5/75/7.5 signal

BETA 0: for 100/0/75/0 signal [N10/SMPTE]

17 NTSC SETUP LEVEL menu

Select the NTSC setup level from two modes. The 7.5 setup level is mainly used in north America. The 0 setup level is mainly used in Japan.

[0]

18 SUB CONTROL screen

You can finely adjust the controls on the front panel. CONTRAST, PHASE, CHROMA and BRIGHT controls have clicks at the center of their adjustment range. You can adjust the setting of the click position with this feature.

19 V HOLD screen

Adjust the vertical hold if the picture rolls vertically.

Note

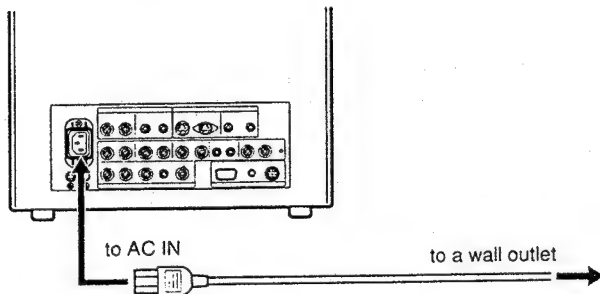
If the rolling of the picture prevents you from watching the screen, select an input that has nothing connected.

Power Sources

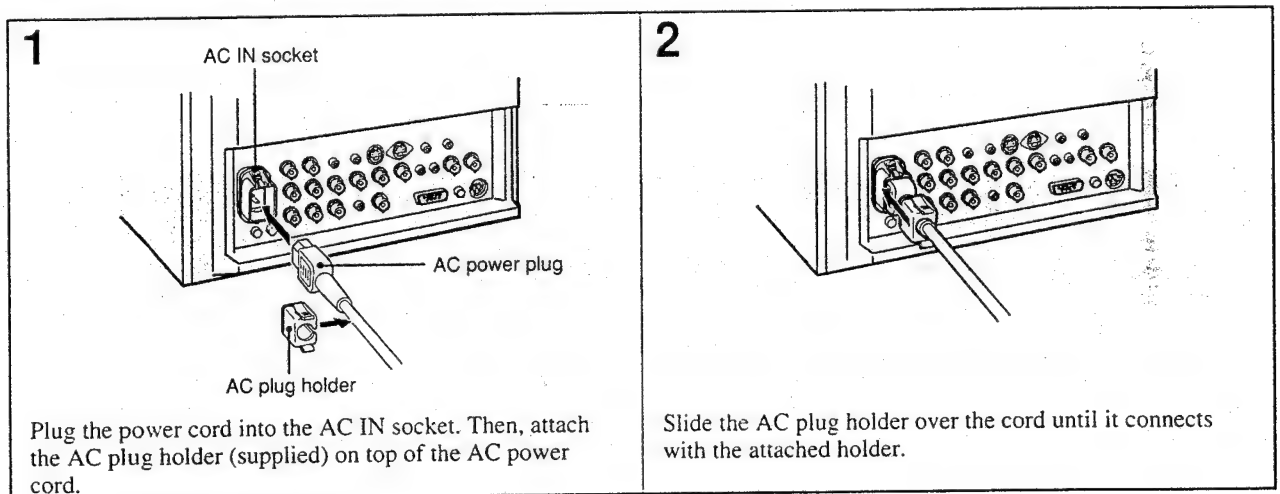
PVM-1453MD

House Current

Connect the supplied AC power cord to the AC IN socket on the rear panel and to a wall outlet.



To connect an AC power cord securely with the AC plug holder



To remove the AC power cord

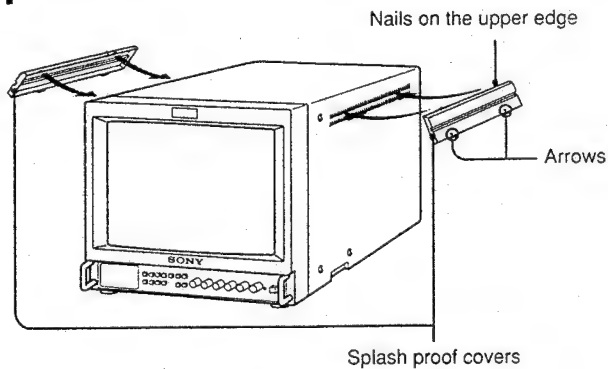
Pull out AC plug holder by squeezing the up and down sides.

Attaching the Splash Proof Covers

PVM-1453MD

In order to protect the ventilation holes from splashes (of medicines, etc.), attach the splash proof covers (supplied) as shown below.

1

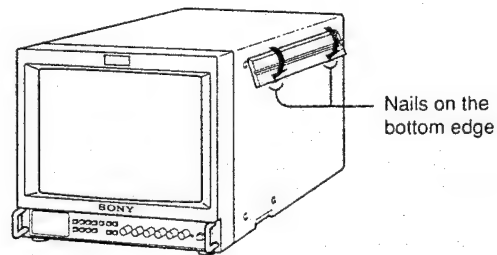


Making sure the arrows on the cover are facing down, hook the nails on the upper edge into the ventilation holes.

Note

Attach the splash proof covers to all them ventilation holes.

2

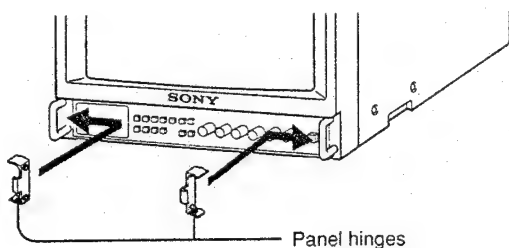


Push up the nails on the bottom edge and fit the cover into the lowest ventilation holes. Attach the both covers to the left and right sides.

Attaching the Control Panel Cover

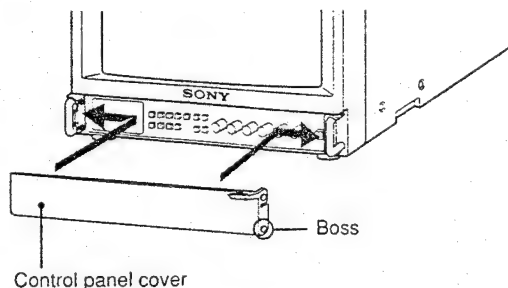
In order to protect the control buttons on the front panel from undesired touching, attach the supplied control panel cover.

1



Attach the panel hinges to the left and right grips from the inner side.

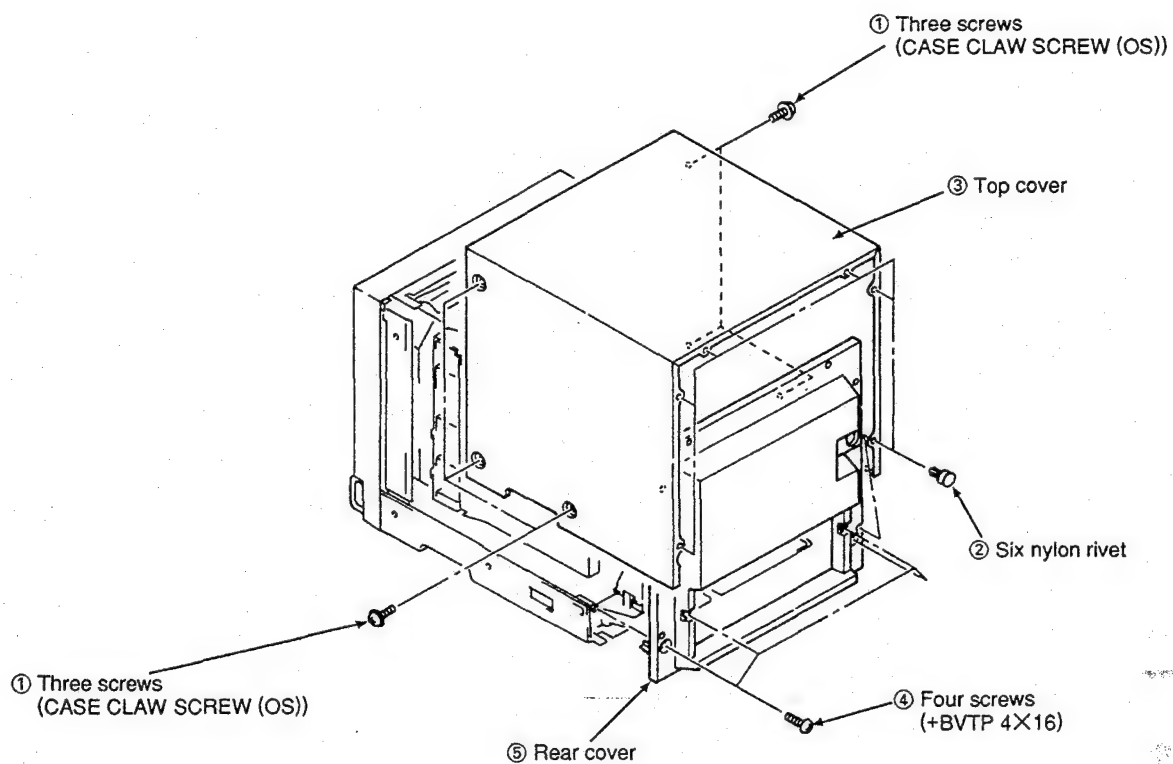
2



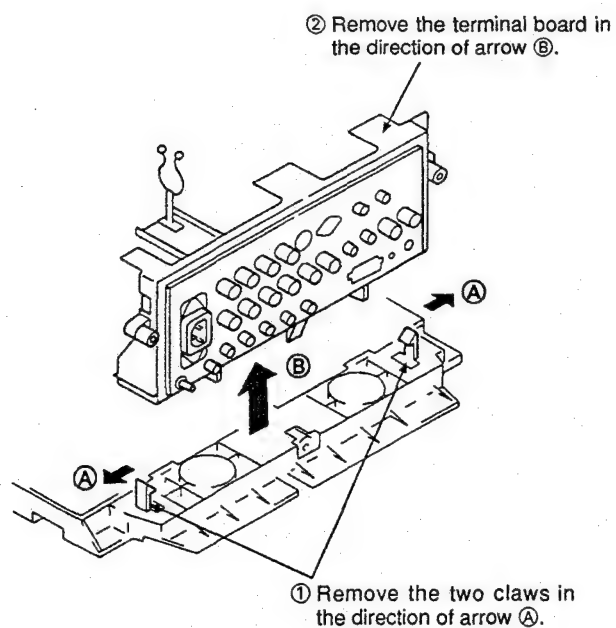
Fit the bosses on the both sides of the control panel cover into the lower holes of the panel hinges with bending the control panel cover a little.

SECTION 2 DISASSEMBLY

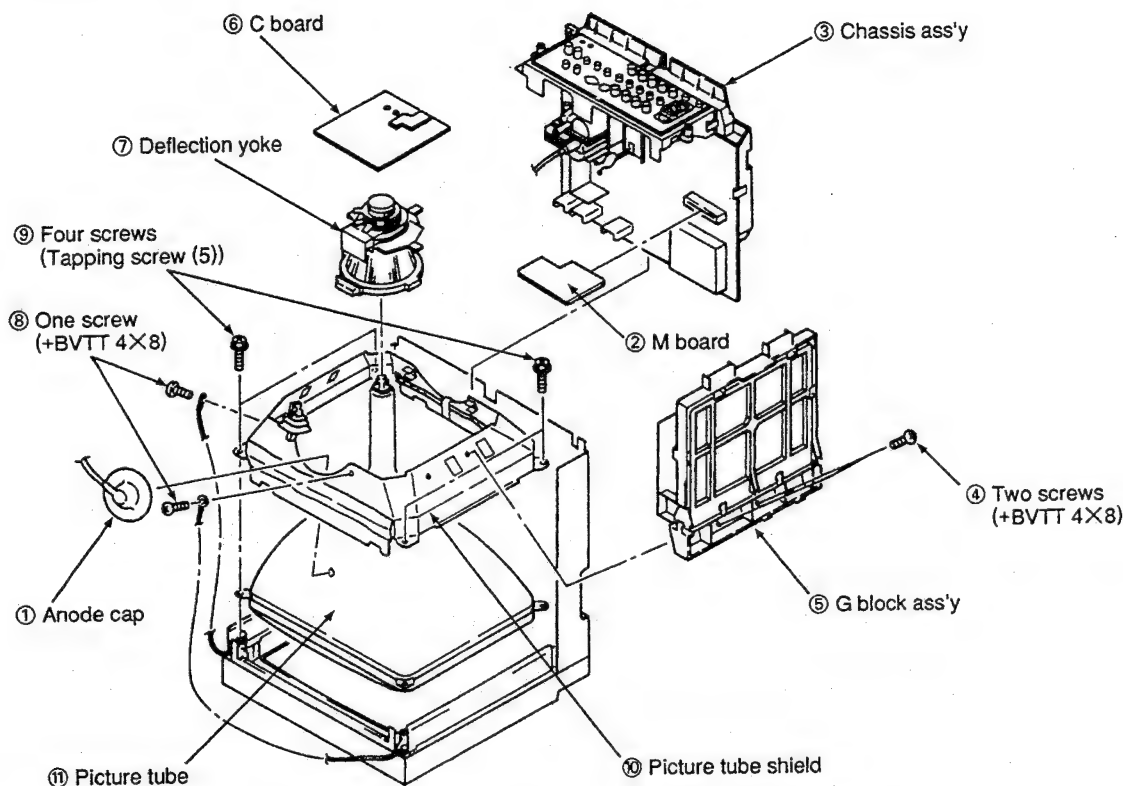
2-1. TOP COVER AND REAR COVER REMOVAL



2-2. TERMINAL BOARD REMOVAL



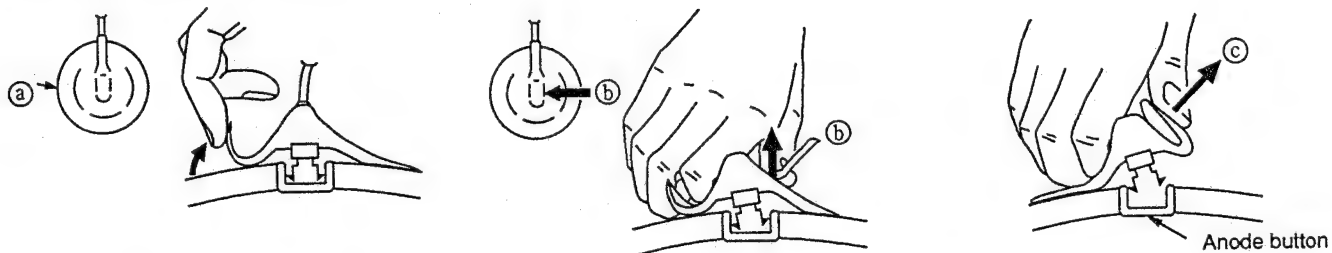
2-3. PICTURE TUBE REMOVAL



• REMOVAL OF ANODE-CAP

NOTE : Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

• REMOVING PROCEDURES

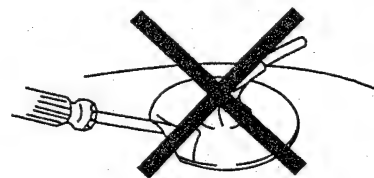
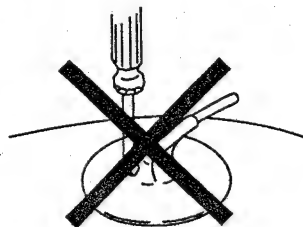


- ① Turn up one side of the rubber cap in the direction indicated by arrow (a).
- ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow (b).

- ③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow (c).

• HOW TO HANDLE AN ANODE-CAP

- ① Don't hurt the surface of anode-caps with sharp shaped material!
- ② Don't press the rubber hardly not to hurt inside of anode-caps!
A material fitting called as shatter-hook terminal is built in the rubber.
- ③ Don't turn the foot of rubber over hardly!
The shatter-hook terminal will stick out or hurt the rubber.



SECTION 3 SET-UP ADJUSTMENTS

3-1. PREPARATIONS (1)

Service Mode

This set is provided with a switch for service on the front panel that can be used to make various adjustments. The operation method of this switch is explained in detail below.

1. ENTERING THE SERVICE MODE

Simultaneously press the [ENTER] key and the [DEGAUSS] key shown on the display of the menu.

2. SERVICE MODE DISPLAY

(1)	(5)	(4)	(3)	(6)
(2)				

Range of Service Mode Display

- (1) The service items are largely classified into 16 types displayed by titles.
- (2) The names of the service items or READ / WRITE guidance, etc., are displayed. The names are displayed to the left and the guidance to the right.
- (3) This is the serial number for each of the service items. 1-120.
- (4) This is the adjustment data for the service items that are now stored in the RAM. Adjustments can be made by changing these values, but as long as nothing is written to the ROM the adjustment values will be erased by turning off the power or by reading, so please be careful.
- (5) When the adjustment data that is now displayed is identical with the data in the ROM, the cursor (▷) is displayed.
- (6) The present status is displayed.
 - [*] : Writing to the ROM. Make sure not to turn off the power while this display is on.
 - [?] : ROM reading error. In this case, an image is output with the standard adjustment data that the microcomputer itself possesses.
 - [i] : Problem in the I²C bus.

3. FINISHING THE SERVICE MODE

Simultaneously press the [ENTER] key and the [DEGAUSS] key shown on the display of the menu.

4. EASY ON / OFF OF THE SERVICE MODE

If once entering the service mode after having turned on the power, easy ON / OFF is possible by once more pressing the A, B or C switch on the front panel (the LED lights) as long as the power is not turned off or as long as the service mode is not finished.

5. CHANGE OF POSITION OF THE SERVICE MODE DISPLAY

If the switch is continuously pressed when turning on in the above easy mode, the display position moves in the V direction. This method is used when the display is outside of the effective screen area.

6. CHANGE OF SERVICE ITEMS

The items are returned with the [MENU] key and forwarded with the [ENTER] key. When a key is continuously pressed, the operation will be repeated.

7. CHANGE OF SERVICE DATA

The service data is made larger with the [↑] key and smaller with the [↓] key. When continuously pressing the keys, the operation will be repeated.

8. READING OF SERVICE DATA

When reading data from the ROM to the RAM, press the RESET key once and check that the READ display is shown in the guidance, and then press the RESET key once again. The adjustment data that is written will return to its previous state, so please be careful.

9. WRITING OF SERVICE DATA

When writing data from the RAM to the ROM, press the [DEGAUSS] key once and check that the WRITE display is shown in the guidance, and then press the [DEGAUSS] key once again. Not only the displayed data will be written, but all data, so please be careful.

10. CARRYING OUT FACTORY RESETTING

In case the adjustment data has been destroyed for some reason, and you keep pressing the RESET key at the beginning of the above reading, the READ guidance will change to FACTORY RESET guidance in approximately 3 seconds so that the factory resetting can be carried out. By once again pressing the RESET key after this, resetting will be carried out ([*] will be displayed as status) and factory resetting will be executed. However, in case the data available at the time of shipment from the factory has been destroyed, or if the ROM has been replaced, etc., or if factory setting mentioned later on has been carried out, factory resetting is executed.

11. CARRYING OUT FACTORY SETTING

Make sure to make possible the above factory resetting by making a copy of the adjustment data when replacing the ROM. If you keep pressing the [DEGAUSS] key at the beginning of the above writing, the WRITE guidance will change into FACTORY RESET guidance after approximately 3 seconds. By once again pressing the [DEGAUSS] key after this, setting will be carried out ([*] will be displayed as status) and the data will be copied. By carrying out this operation, the selection items of the menu and the adjustment values will be reset to the standard conditions, so please be careful. If this operation is carried out once, it cannot be carried out again, but the FACTORY SET FLAG in the service mode can be set to 1.

PVM-1353MD/1453MD

ROM INITIAL WRITING VALUE OF SERVICE DATA

SERVICE MAP Ver 1.0MD (1 - 98)

No.	SERVICE ITEM		STD	No.	SERVICE ITEM		STD
1	NOR 50 DEF	H FREQUENCY	144	61	USER C/T ORG	BIAS <RED>	650
2		VIDEO PHASE	118	62		BIAS <GREEN>	512
3		V SIZE	179	63		BIAS <BLUE>	352
4	NOR 60 DEF	H FREQUENCY	150	64		GAIN <RED>	726
5		VIDEO PHASE	121	65		GAIN <GREEN>	700
6		V SIZE	177	66		GAIN <BLUE>	520
7	NOR DEF	V CENTER	111	67	W/B	SUB CON	180
8		H SIZE	112	68		SUB BRIGHT	69
9		PIN PHASE	103	69		OTHER	OSD POSITION
10		PIN AMP	110	70		SPLIT PHASE	0
11		LOWER PIN AMP	128	71		V HOLD	128
12		U/L PIN	134	72		H BLANKING	74
13		SEXY	128	73		H BLANKING <50>	63
14		V LINEARITY	140	74		O/S UPPER V BLK <50>	21
15		V BOW	32	75		O/S LOWER V BLK <50>	73
16		LOWER V BOW	32	76		V BLANKING <60>	117
17		V ANGLE	32	77		O/S UPPER V BLK <60>	26
18	U/S DEF	V SIZE <50>	149	78		O/S LOWER V BLK <60>	83
19		V SIZE <60>	146	79		HP POSITION	140
20		H SIZE	100	80		HP WIDTH	90
21		PIN PHASE	109	81	SYSTEM	358TRAP FILTER	0
22		PIN AMP	87	82		CAPTION VISION	0
23	O/S DEF	V SIZE <50>	192	83		COMPONENT LEVEL	2
24		V SIZE <60>	189	84	NTSC SETUP LEVEL	0	
25		H SIZE	211	85	CHROMA SET UP	0	
26		PIN PHASE	97	86		COLOR SYSTEM DISPLAY	0
27		PIN AMP	127	87		COLOR TEMPERATURE	0
28		LOWER PIN AMP	111	88		USER PRESET	0
29		U/L PIN	132	89		LANGUAGE	0
30		LOWER V BOW	32	90		RGB MODE A	0
31	COMPONENT	SUB PHASE	131	91		RGB MODE B	0
32		SUB CHROMA <NORMAL>	97	92		AGING MODE	0
33		SUB CHROMA <SMPTE>	157	93		MODEL	5
34		R-Y LEVEL	157	94		COLOR TEMP DISP 1	65
35	NTSC	BURST GATE PULSE WIDTH	36	95		COLOR TEMP DISP 2	56
36		CRYSTAL	54	96		REMOTE ADDRESS	1
37		PHASE	103	97		RESERVED	0
38		B-Y PHASE	230	98		FACTORY SET FLAG	0
39		CHROMA	118	99			
40		R-Y LEVEL	105	100			
41	PAL	CRYSTAL	65	101			
42		PHASE	76	102			
43		B-Y PHASE	125	103			
44		CHROMA	135	104			
45		R-Y LEVEL	123	105			
46	C/T1 3200K	3200K SW	0	106			
47		BIAS <RED>	554	107			
48		BIAS <GREEN>	512	108			
49		BIAS <BLUE>	519	109			
50		GAIN <RED>	668	110			
51		GAIN <GREEN>	700	111			
52		GAIN <BLUE>	633	112			
53	C/T2 3200K	3200K SW	0	113			
54		BIAS <RED>	650	114			
55		BIAS <GREEN>	512	115			
56		BIAS <BLUE>	352	116			
57		GAIN <RED>	726	117			
58		GAIN <GREEN>	700	118			
59		GAIN <BLUE>	520	119			
60	USER C/T ORG	3200K SW	0	120			

PREPARATIONS (2)

- * When composite video or component signals are supplied, they must be supplied as below.

Signal		Signal Contents	Standard Level P-W
COMPOSITE VIDEO	358NT	100% WHITE	0.714V
		75% WHITE	0.536V
	PAL	100% WHITE	0.7V
		75% WHITE	0.525V
COMPONENT	BETA 0	100% WHITE Y	0.7V
		75% WHITE Y	0.525V
		75% COLOR B-Y, R-Y (This item only p-p)	0.7V
	SMPTE	100% WHITE Y	0.7V
		75% WHITE Y	0.525V
		75% COLOR B-Y, R-Y (This item only p-p)	0.525V
AUDIO		-0.5dBs	0.436Vrms

- * In this document, terms inside boxes are names of service mode adjustments.

Example 60H-FREQ

- * After making adjustments in service mode, write the adjustment data before cutting off the power. If you cut off the power without writing, the results of your adjustments are all lost.

Standard inspection conditions

Unless specifically specified otherwise in this document, the following conditions are used for adjustments and inspections.

APERTURE	MIN
BRIGHT	50% (Center click)
CHROMA	50% (Center click)
PHASE	50% (Center click)
CONTRAST	80% (Center click)
VOLUME	50%

3-2. WRITING MODEL DATA

- In service mode, write in the following model data at MODEL.
PVM-1353MD/1953MD 5
PVM-1453MD/2053MD 1
- In service mode, write in the following data at COLOR TEMP DISP 1.
PVM-1353MD/1453MD 65
PVM-1953MD/2053MD 65
- In service mode, write in the following data at COLOR TEMP DISP 2.
PVM-1353MD/1453MD 56
PVM-1953MD/2053MD 56

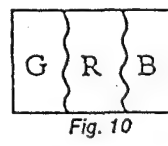
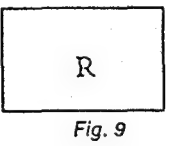
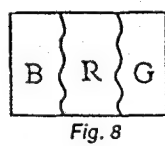
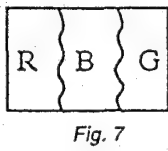
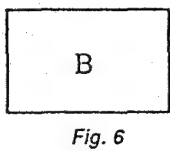
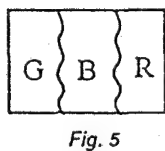
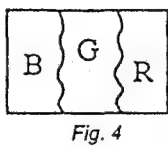
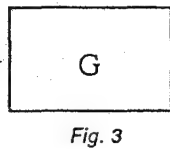
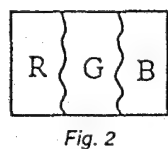
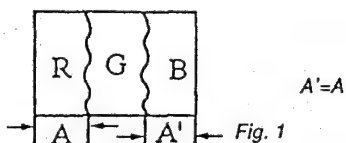
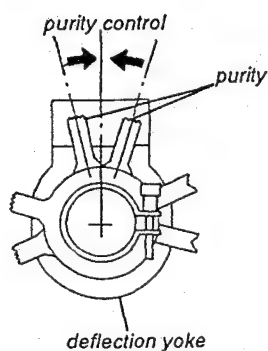
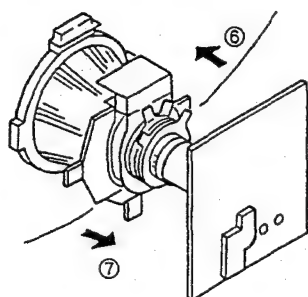
3-3. PICTURE OUTPUT

- Set the AC input voltage.
(1) Input the video and audio signals to the corresponding terminals on the connector panel.
(2) Set the sliduck AC voltage as shown on the right.

Model	Voltage
PVM-1353MD/1953MD	AC120 ± 3V (Distortion rate : 3% or less)
PVM-1453MD/2053MD	AC220 ± 3V (Distortion rate : 3% or less)

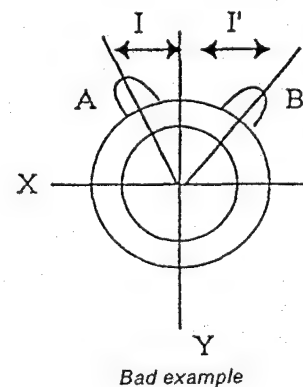
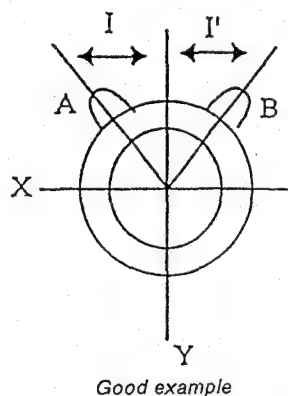
3-4. LANDING ADJUSTMENT

- Preparations
(1) To reduce the influence of geomagnetism, face the set's CRT screen east or west.
(2) Loosen the deflection yoke fixture and lower the deflection yoke to the rear.
(3) Switch on the Power switch and degauss with the degausser.
(4) Adjust the deflection yoke tilt.
- Adjustment
(1) CONT MIN
BRT..... Position providing good vision
(2) The rough adjustments of the white balance, G2, and convergence must be completed already.
(3) Set green-only.
(4) Adjust the purity knob so that the green comes to the center of the screen. Make the red and blue about even. Fig. 1
(5) Switch to blue only, red only, and green only and verify each. Fig. 1, 2, and 3
(6) Bring the deflection yoke gradually forward and adjust the deflection yoke so that the R and B at both sides of the screen become green. Fig. 2 → 3
(7) If the deflection yoke comes too far forward, you will see the pattern shown in Figure 4. If that happens, lower the deflection yoke to the rear. Fig. 4 → 3
(8) Switch the single color switch to B and verify the single color. Fig. 6
(9) Switch the single color switch to R and verify the single color. Fig. 9
(10) When one of the colors does not become the single color correctly, check by repeating Items 7 and 8 based on the single color not coming into adjustment.
If you can not obtain landing in the corners, paste on magnets.
(11) Switch to an all-white signal and check the uniformity.
(12) When the deflection yoke position is determined, fasten it with the fixture.



3-5. CONVERGENCE ADJUSTMENT

1. Input a dot pattern signal.
CONT Position providing good vision
BRT..... MIN
2. Align the horizontal R, G, and B dots at the center of the screen with the H-STAT VR. (*1)
*1 : If the H-CENTER adjustment was after the H-STAT adjustment, re-adjust the H-STAT.
(The H-CENT VR changes the H-STAT too.)
3. Align the R, G, and B at the center of the screen with the V-STAT magnets. (*2)
*2 : After the V-STAT adjustment, paint on the knobs to lock them.

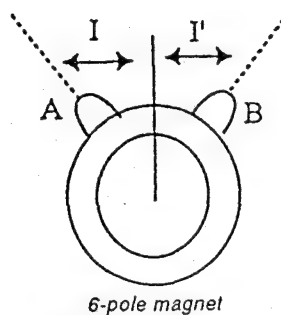


V-STAT magnet knobs
While keeping the angles for A and B equal ($I=I'$), align the vertical convergence.

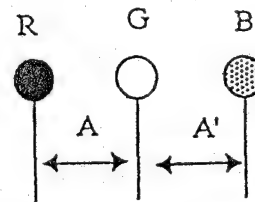
If the A and B knobs are not symmetrical ($I \neq I'$), this has bad effects. The focus may deteriorate and beam striking may occur.

4. For HMC, use the 6-pole magnet to adjust the R and B dots to be symmetrical left and right about the G dot. (*1)

*1 :



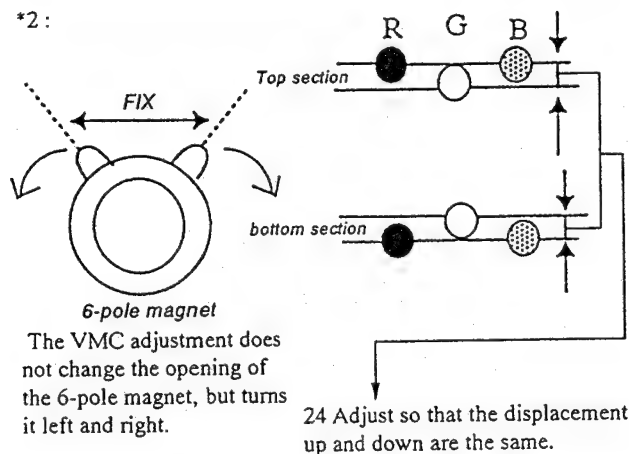
The HMC adjustment changes the opening of the 6-pole magnet.



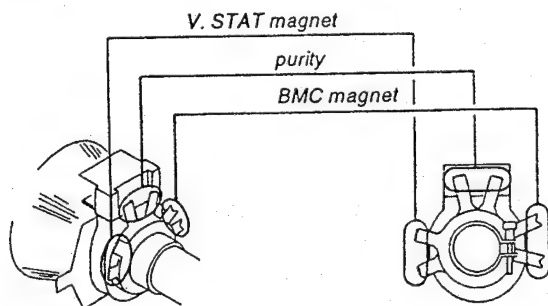
Adjust the 6-pole magnet so that $A=A'$. You must maintain the relationship $I \neq I'$ while moving the magnet.

5. For VMC, use the 6-pole magnet to adjust the R and B dots to be symmetrical above and below the G dot. (*2)

*2:



6. Adjust by repeating the adjustments in Items 2 through 5. (*3)
- *3: The above adjustment may affect the landing, so after this adjustment, check the landing again.
7. After the adjustment is complete, paint on the knobs to lock them.

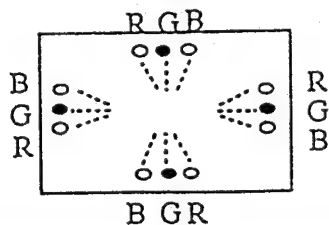


3-6. DEFLECTION YOKE NECK ROTATION ADJUSTMENT

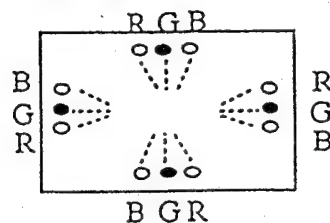
If there is misconvergence at both sides on the X or Y axis of the screen, turn the neck of the deflection yoke in the direction of the arrow to reduce the misconvergence for the entire CRT screen to within the tolerance.

1. Reverse misconvergence pattern

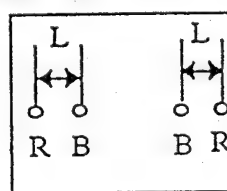
Turn the deflection yoke neck down.



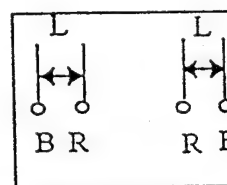
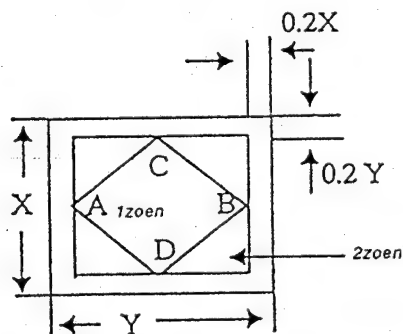
Positive misconvergence pattern
Turn the deflection yoke neck up.



Pattern when deflection yoke too far to the left



As viewed from the CRT screen, turn the deflection yoke neck to the right.

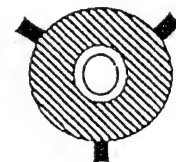


Pattern when deflection yoke too far to the right

2. Insert the three wedges in the deflection yoke and CRT funnel surface to fasten the deflection yoke.

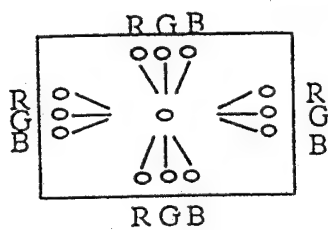


14" Wedge positions

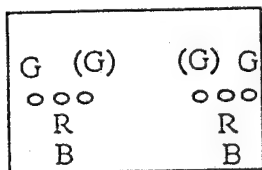


20" Wedge positions

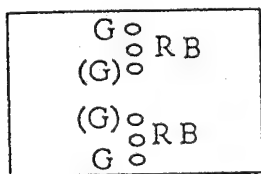
3. The pattern below can not be corrected by turning the neck.



* Gun rotation
The beam is twisted at both sides on the X axis and Y axis.



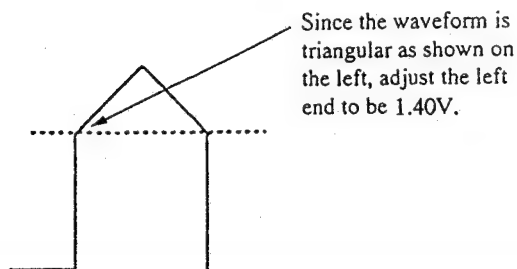
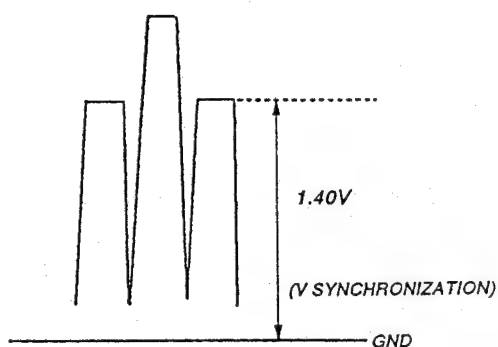
* HCR large (small)
At both sides of the screen, the G raster horizontal component is wider (narrower) than those of the R and B rasters.



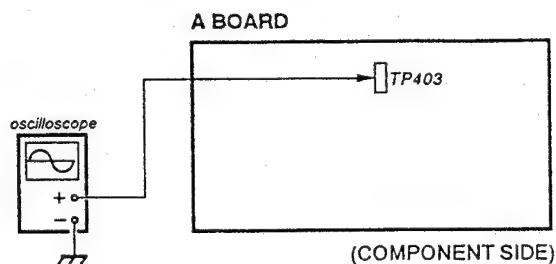
* VCR large (small)
At both sides of the screen, the G raster vertical component is wider (narrower) than those of the R and B rasters.

3-7. G2 ADJUSTMENT

1. Input a 525 monoscope signal.
2. Connect the oscilloscope to A board TP403.
3. Of the three reference pulses, measure the lowest one.
4. With the Screen VR, adjust so that left end of the waveform is : $1.40 \pm 0.1V$



Since the waveform is triangular as shown on the left, adjust the left end to be 1.40V.



3-8. WHITE BALANCE ADJUSTMENT

For measuring equipment, use a color analyzer. (for example from Minolta, etc.)

1. Input a 525 monoscope signal.
(Input from Line A with no burst.)
2. Set :
CONT 0%
BRT..... 50%
3. On a 20-tone gray scale, adjust service mode **SUB BRIGHT** so that
0 and 5 IRE → cut off
10 IRE → slight glow
4. Input 525 all-white (no burst).
5. Set CONT to 80%.
6. Adjust the all-white signal luminance so that the screen luminance is 3 NIT.
7. Press MENU and select COL TEMP/SEL.
8. Select T1 : 6500K.
9. Put the unit into service mode. (*1)
*1 : Set **3200 K SW** to 0 for both T1 and T2.
10. Adjust to the standard values with **C/T1 XX00K BIAS**.
(G must be fixed at "512".) (*2)
*2 : Adjust the cut-off to be 3 NIT.
Spec. 6500K + 8M PCD
11. Switch the all-white signal luminance to 100 IRE.
12. Adjust to the Standard values <RED> and <BLUE> of **C/T1 GAIN XX00 K**.
(G must be fixed at "700")
13. Repeat Items 10, 11 and 12 until the adjustment is complete, then write the adjustment data.
14. Press MENU and select COL TEMP/BAL.
15. Select T2 : 5600K.
16. In the same manner as in Items 10, 11, 12 and 13 make the **C/T2 5600K BIAS** and **C/T2 5600K GAIN** adjustments.
Spec. 5600K + 8M PCD

3-9. SUB BRT ADJUSTMENT

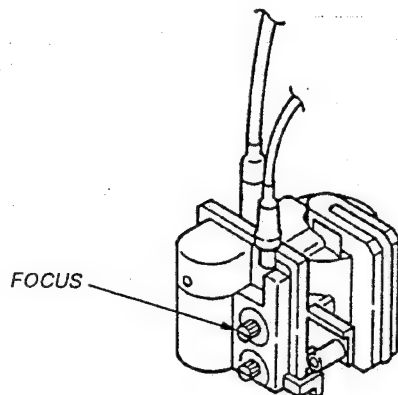
1. Input a 525 monoscope signal.
2. CONT MIN
BRT CENTER (50%)
3. Put the unit into service mode and select **SUB BRIGHT**
4. Adjust **SUB BRIGHT** so that 10 IRE gives a slight glow and 10 IRE gives cut off.

3-10. FOCUS ADJUSTMENT

Note : PVM-1353MD/1453MD are adjusted with RV707 on the C board.

PVM-1953MD/2053MD are adjusted with the RV at the top of the FBT main unit.

1. Input a 525 monoscope signal. (PVM-1353MD/1953MD ONLY)
Input a 625 monoscope signal. (PVM-1453MD/2053MD ONLY)
2. Adjust the focus to optimize the focus on the characters "30" at the center of the screen.
3. Switch to an all-white signal and check the uniformity.



SECTION 4
SAFETY RELATED ADJUSTMENT

The following adjustments should always be performed when replacing the following components (marked with \boxtimes , \boxdot on the schematic diagram).

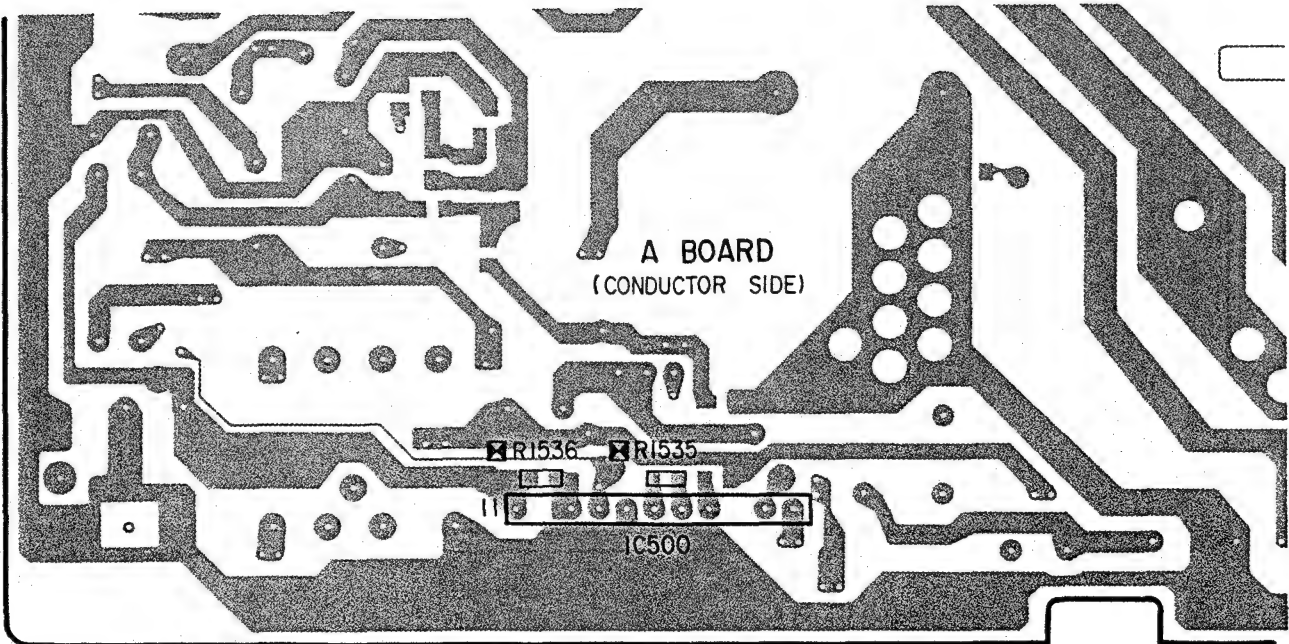
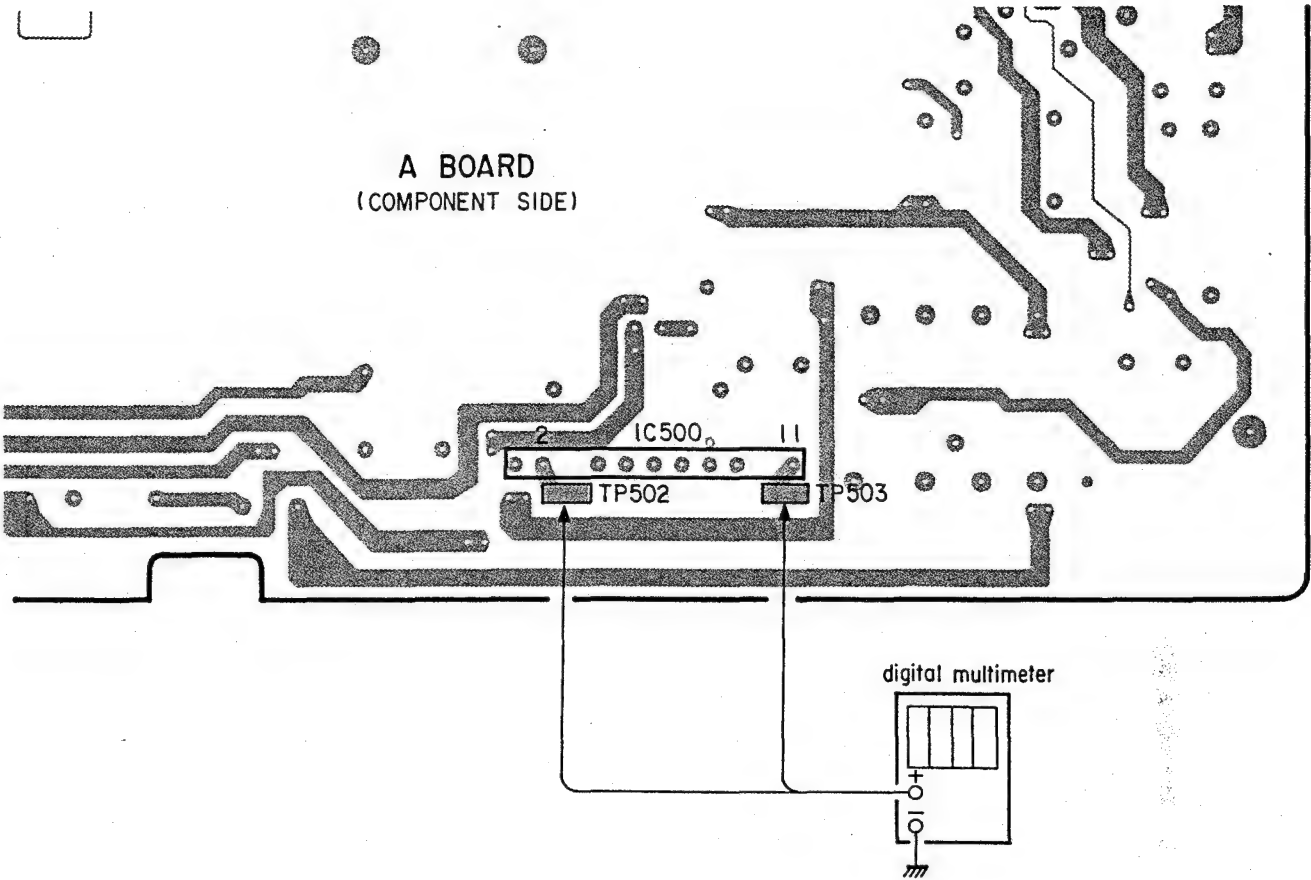
- +B detection \boxtimes R1535
- Tertiary coil detection..... \boxtimes R1536
Part replaced (\boxdot)
- Hold Down Circuit \boxdot A board IC500, IC507, D501,
D533, C506, C512, C523,
C549, C592, R506, R518,
R519, R551, R1536,
R1537, R1560, T501
- Beam Current Protector
Circuit..... \boxdot A board Q500, Q511, C513, R508,
R515, R516, R517
- B+ Regulator Circuit \boxdot A board R1535
 \boxdot G board IC602, C603

B+ VOLTAGE CONFIRMATION

Standard : less than 117.0VDC
Check Condition : Input voltage : $110 \pm \frac{1}{2}$ VAC
Note : Use NF Power Supply or make sure that distortion factor is 3% or less.
Input signal : Monoscope signal
Controls : BRT & CONT \Rightarrow Initial reset

HOLD-DOWN CIRCUIT VOLTAGE CONFIRMATION

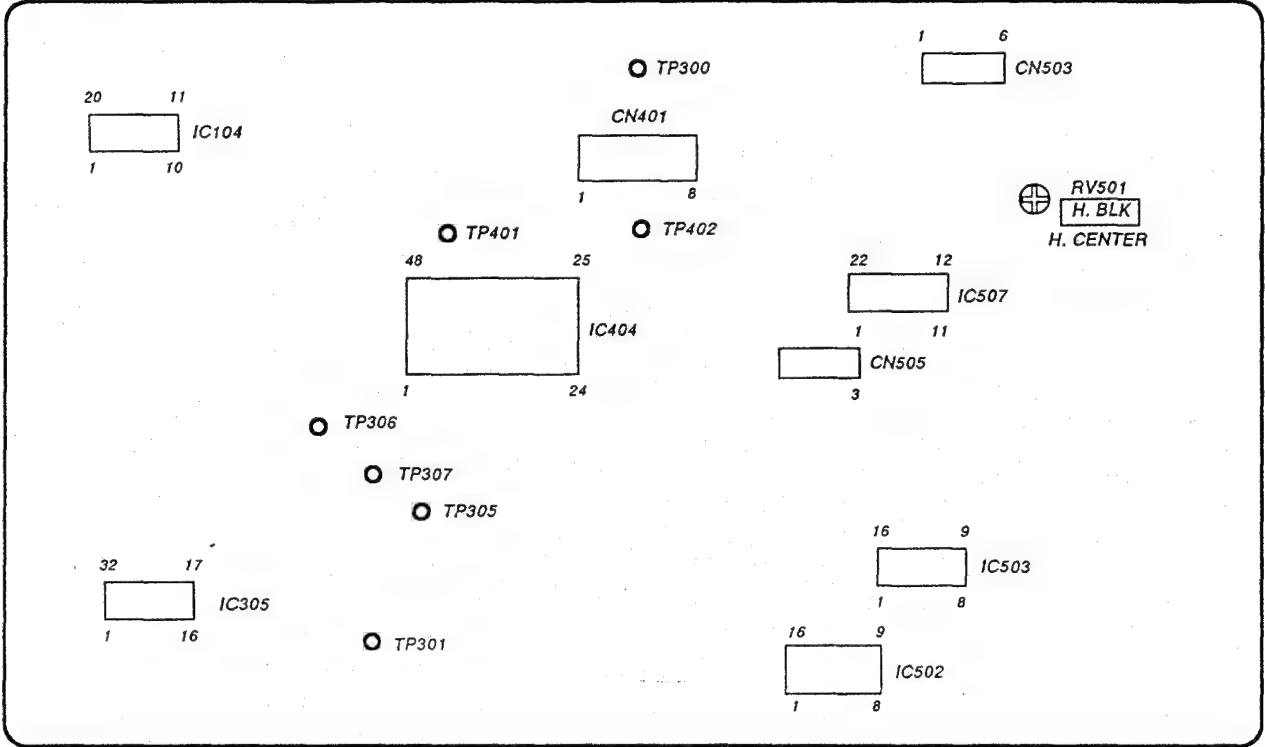
- (1) Hold down circuit (B+ Actuation)
 - a) When $IABL = 600 \pm 50 \mu A$, raster goes out at less than $130 \pm \frac{1}{2} V$ by applying an external DC voltage to IC500 ② pin (TP502).
Input signal : ALL white
 - b) When $IABL = 40 \pm 20 \mu A$, raster goes out at less than $132 \pm \frac{1}{2} V$ by applying an external DC voltage to IC500 ② pin (TP502).
Input signal : Dot
- (2) Hold down circuit (Tertiary coil detection voltage)
Confirmatory item : 110.0V voltage should be applied to the ⑪ pin of IC500.
 - a) When $IABL = 600 \pm 50 \mu A$, raster goes out when applying less than DC 146.7V voltage to the ⑪ pin (TP503) of IC500 from outside.
Input signal : ALL white
 - b) When $IABL = 40 \pm 20 \mu A$, raster goes out when applying less than DC 147.0V voltage to the ⑪ pin (TP503) of IC500 from outside.
Input signal : Dot



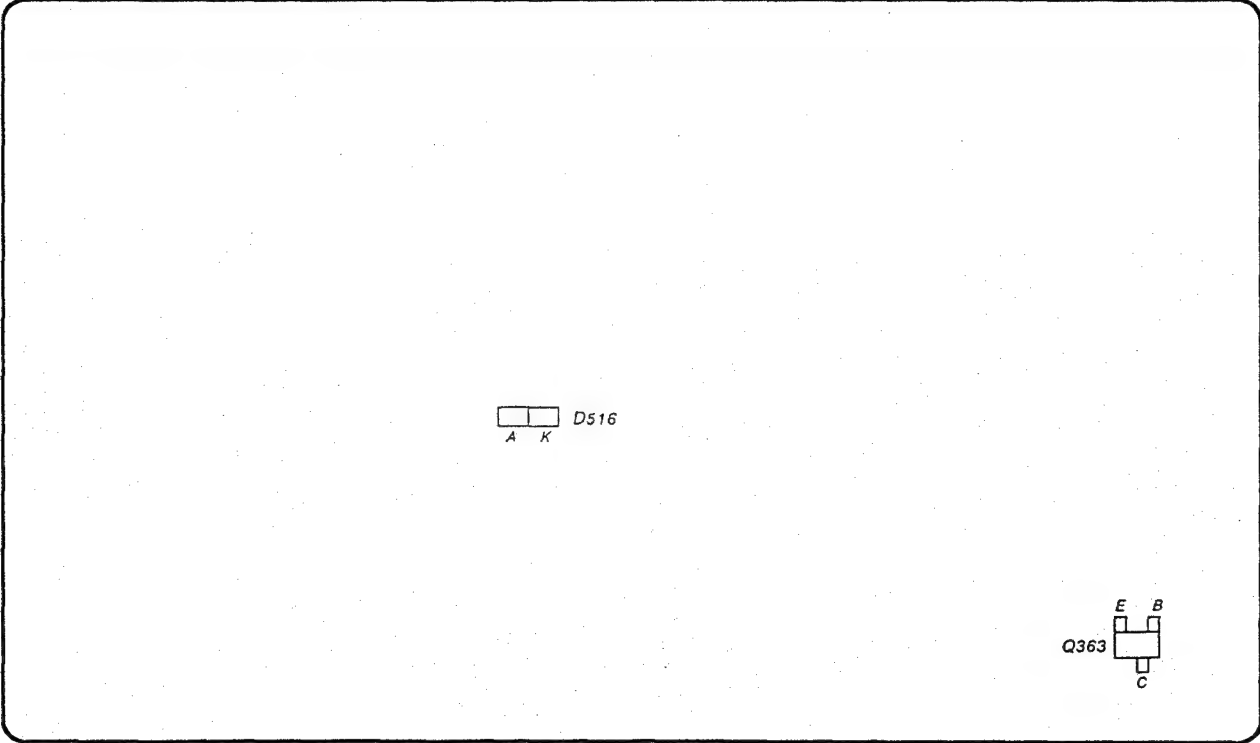
SECTION 5
CIRCUIT ADJUSTMENTS

5-1. A BOARD ADJUSTMENT

A BOARD - COMPONENT SIDE -



A BOARD - CONDUCTOR SIDE -



I. Preparations

* When composite video or component signals are supplied from connector CN301, they must be supplied taking into account the effect of the Q board as indicated on the right.

The levels of the signals supplied must be within $\pm 2\%$ of the standard on the right.

Signal		Signal Contents	Standard Level (Pedestal-White)	Reduction Ratio	Connector Feed Level (Pedestal-White)
COMPOSITE VIDEO (75% COLOR BAR)	358NT	100% WHITE	0.714V	93%	0.664V
		75% WHITE	0.536V	93%	0.498V
		BURST (GREEN) (This item only P-P)	286mV (632mV)	94% (94%)	269mV (594mV)
	PAL	100% WHITE	0.7V	94%	0.651V
		75% WHITE	0.525V	94%	0.488V
		PAL BURST (GREEN) (This item only P-P)	300mV (664mV)	94% (94%)	282mV (624mV)
COMPONENT (75% COLOR BAR)	BETA0	100% WHITE Y	0.7V	94.8%	0.664V
		75% WHITE Y	0.525V	94.8%	0.498V
		75% COLOR B-Y, R-Y (This item only P-P)	0.7V	94.8%	0.664V
	SMPTE	100% WHITE Y	0.7V	94.8%	0.664V
		75% WHITE Y	0.525V	94.8%	0.498V
		75% COLOR B-Y, R-Y (This item only P-P)	0.525V	94.8%	0.498V

* In this document, terms inside boxes are names of service mode adjustments.

Example 60H-FREQ

* CONT 80% is the center click position for the user control.

II. Deflection System Adjustment

1. ADJUSTING THE HORIZONTAL OSCILLATION FREQUENCY

1. Input a 525 monoscope signal.
2. Set :
CONT..... 80%
BRT.....50%
3. Put the unit into service mode.
4. Drop A board IC507 Pin 1 to ground with a $100\mu/16V$ electrolytic capacitor. (Ground must use CN505 Pin 3.)
Or plug the H-FREQ tool into CN505.
5. Adjust 60H-FREQ so that the diagonal lines on the screen become vertical lines. (Fig. 1)
6. Input a 625 monoscope signal.
7. Adjust 50H-FREQ so that the diagonal lines on the screen become vertical lines. (Fig. 1)

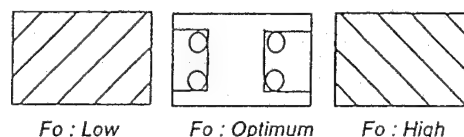
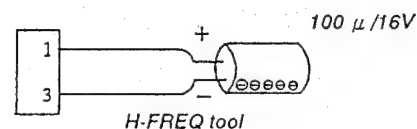


Fig. 1

2. H-BLK Adjustment

1. Input a 525 monoscope signal.
2. Set :
CONT.....80%
BRT.....50%
3. Put the unit into service mode.
4. Observe the anode of D516 or TP300 with the oscilloscope and adjust **H-BLK** to obtain the waveform in Fig. 2.

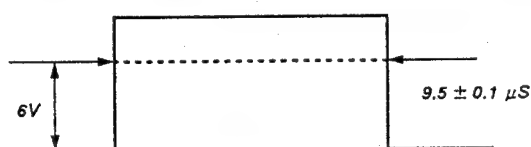


Fig. 2

3. PICTURE PHASE Adjustment

1. Input a 525 monoscope signal.
2. Put the unit into under scan mode.
3. Set :
CONT..... Min.
BRT.....Max.
4. Put the unit into service mode.
5. Use **U/S H SIZE** to adjust the size of the monoscope white frame to be about 1 cm to the inside of the limits of the effective screen.
6. Turn RV501 (H-CENT) and adjust so that B=B'.
7. Adjust **60 VIDEO PHASE** so that the signal region comes to the center (A=A') of the deflection region. (Fig. 3)

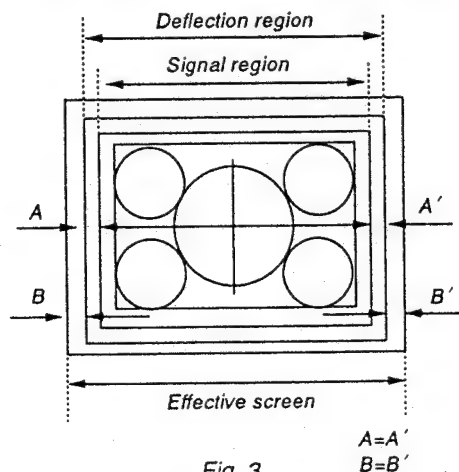


Fig. 3

8. Input a 625 monoscope signal.
9. Adjust **50 VIDEO PHASE** in the same manner.

4. V-BLK Adjustment

1. Input a 525 monoscope signal.
2. Put the unit into under scan mode.
3. Set :
CONT..... Min.
BRT.....Max.
4. Put the unit into service mode.
5. Adjust **V BLK (60)** so that before 0.5H of the white frame on the top of the monoscope is barely unblocked.
6. End under scan mode and put the unit into Normal 16:9 mode.
7. Input a 625 monoscope signal.
8. Adjust **V BLK (50)** in the same manner as in 5 above.

5. VERTICAL DEFLECTION SECTION Adjustment

Normal V. Size Standards

	525	625
4 : 3	11.75 ± 0.2 frames	11.2 ± 0.2 frames

1. Input a 525 monoscope signal.
2. Set :
CONT..... 80%
BRT..... 50%
3. Put the unit into service mode.
4. Roughly adjust 4 : 3 NOR **V-SIZE 60** so that the size becomes to 12 frames.
Adjust the vertical linearity with **V-LIN**.
Adjust the vertical centering with **V-CENT 60**. (Refer to Note 1.)
Adjust 4 : 3 NOR **V-SIZE 60** so that the size becomes to the standard value.
5. Input a 625 monoscope signal.
6. Roughly adjust 4 : 3 NOR **V-SIZE 50** so that the size becomes to 11 frames.
Adjust the vertical centering with **V-CENT 50**. (Refer to Note 1.)
Adjust 4 : 3 NOR **V-SIZE 50** so that the size becomes to the standard value.

Note 1:

Reconfirmation is necessary for V. CENT adjustment after V. LIN adjusted.

6. HORIZONTAL DEFLECTION SECTION Adjustment (NORMAL SCAN Adjustment)

1. Input a 525 monoscope signal.
2. Set :
CONT..... 80%
BRT..... 50%
3. Put the unit into service mode.
4. Roughly adjust NOR H SIZE so that the size is 15.75 frames.
5. Adjust the horizontal deflection section with NOR PIN AMP
NOR PIN PHASE NOR U/L PIN SEXY V BOW
V ANGL NOR H SIZE LOW PIN AMP LOW V BOW.
(While adjusting the parallelogram distortion and bow distortion with V. ANGL and BOW, adjust the horizontal and vertical lines of the screen becomes straight lines.)
6. Input a 625 monoscope signal.
7. Confirm that the screen is normal.

Normal H.Size Standards

	525	625
4 : 3	15.75 ± 0.2 frames	15.0 ± 0.2 frames

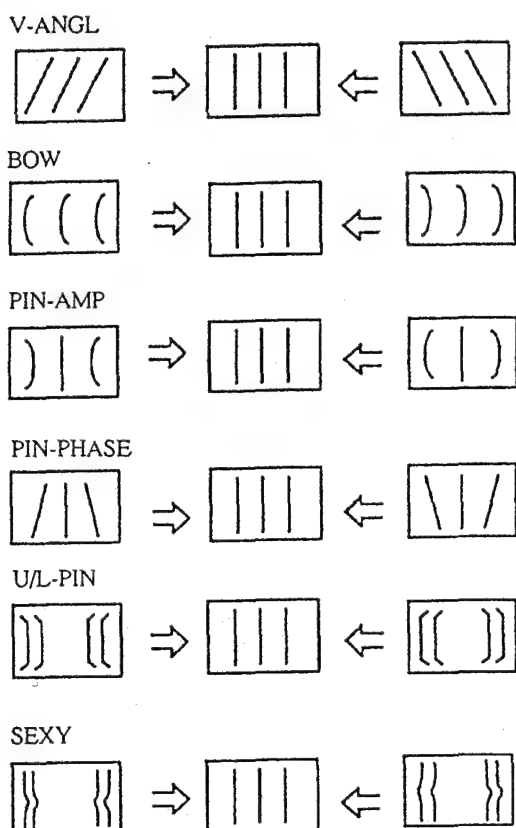


Fig. 4

7. HORIZONTAL DEFLECTION SECTION Adjustment (UNDER SCAN Adjustment)

Standard value

		525	625
14"	U/S H-SIZE	252 ± 2mm	←
	U/S V-SIZE	188 ± 2mm	
20"	U/S H-SIZE	364 ± 3mm	←
	U/S V-SIZE	272 ± 3mm	

1. Input a 525 monoscope signal.
2. Set :
CONT80%
BRT50%
3. Set to U/S mode.
4. Set to service mode.
5. Adjust U/S V. SIZE <60> so that UNDER V. SIZE becomes within the standard.
6. Adjust U/S. H. SIZE so that UNDER H. SIZE becomes within the standard.
7. Adjust U/S PIN AMP and U/S PIN PHASE.
(Steps 5., 6. and 7. explains tracking adjustment.)
8. It's not favorable when the square white line is bulging out of the effective screen after adjusted.
9. Input a 625 monoscope signal.
10. Adjust U/S V. SIZE <50> becomes within the standard value.

8. OVER SCAN Adjustment

1. Input a 525 monoscope signal.
2. Set :
CONT80% (center click)
BRT50%
3. Set to O/S mode.
4. Set to service mode.
5. Adjust **O/S H. SIZE** and **O/S V. SIZE <60>** so that H. SIZE becomes 13.6 frames and V. SIZE becomes 10.2 frames.
6. Adjust horizontal deflection section with **O/S PIN AMP**
O/S PIN PHASE **O/S U/L PIN** **O/S LOW PIN AMP**
O/S LOW V. BOW.
7. Input a 625 monoscope signal.
8. Adjust **O/S V SIZE <50>** becomes within the standard value.

Standard value

	525	625
O/S H. SIZE	13.6 ± 0.8 frames	13.0 ± 0.8 frames
O/S V. SIZE	10.2 ± 0.8 frames	9.8 ± 0.8 frames

9. OSD POSITION Adjustment

1. Input a 525 color bar signal.
2. Connect the oscilloscope probes to TP300 (H-BLK) and IC104 Pin 14.
3. Adjust **OSD POSITION** so that the gap between the rising edge of the H-BLK waveform and the right edge character (the right edge of the " " for service mode **OSD POSITION**) is : $57 \mu S \pm 0.2 \mu S$

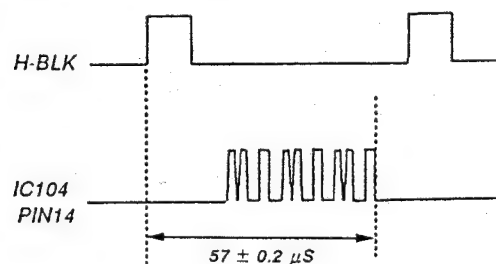


Fig. 6

10. WRITING THE ADJUSTMENT

1. Write the adjustment results into memory.
Note : If you cut off the power before writing, the results of your adjustments are all lost.

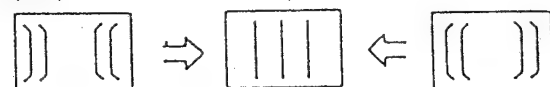
O/S PIN . AMP



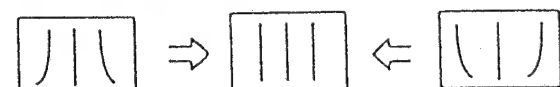
O/S PIN. PHASE



O/S U/L. PIN



O/S LOW PIN . AMP



O/S LOW BOW

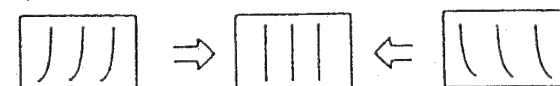


Fig. 5

III. SIGNAL SYSTEM ADJUSTMENT

1. SUB CON ADJUSTMENT

*This adjustment ought to have completed before HUE adjustment of NTSC 358/443 and PAL.

1. Input a vertical white line signal.
Note : Use a vertical white line signal (525 no burst, H width $3\mu\text{S}$, 100IRE).
2. Set :
CONT 80%
BRT 50%
3. Connect the oscilloscope probe to A board CN401 Pin 3.
4. Put the unit into service mode.
5. Adjust SUB BRT.
6. Adjust the pedestal or the distance between the sync tip and white with **SUB CON (4 : 3 NOR)**.

SUB CON (4 : 3 NOR) (Fig. 7).

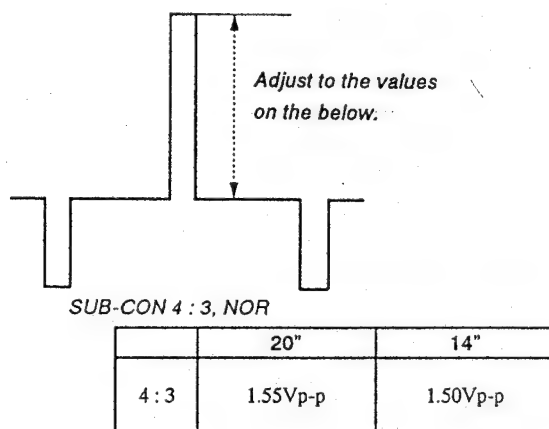


Fig. 7

2. SUB PHASE Adjustment

1. Input a component color bar (R-Y) and EXT SYNC (Beta 0 level signal).
2. Put the unit into Ext Sync mode.
3. Connect the oscilloscope probe to IC404 Pin 30 or TP402.
4. Put the unit into service mode.
5. Adjust **SUB PHASE** to minimize the output waveform (15 mVp-p max.) (Fig. 8)

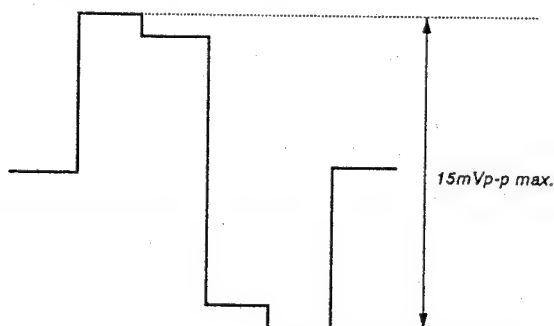


Fig. 8

3. SUB CHROMA Adjustment

1. Input a component color bar (R-Y, Y, B-Y). (Beta 0 level signal).
2. From the menu, make the Component Level Beta 0.
3. Connect the oscilloscope probe to IC404 Pin 30 or TP402.
4. Put the unit into service mode.
5. Using **SUB CHROMA NORMAL**, adjust so that the tops of the waveform line up as in the diagram below. (Fig. 9)

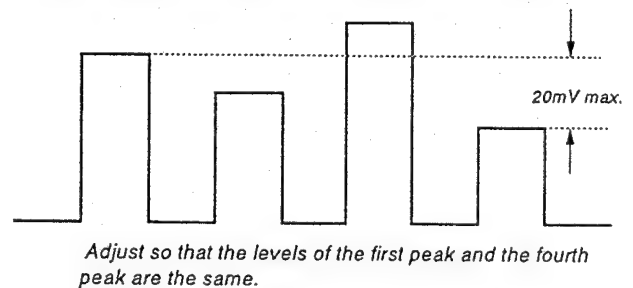


Fig. 9

4. R-Y LEVEL ADJUSTMENT

1. Input a component color bar (R-Y, Y, B-Y). (Beta 0 level signal).
2. From the menu, make the Component Level Beta 0.
3. Connect the oscilloscope probe to IC404 Pin 41 or TP401.
4. Put the unit into service mode.
5. Using **R-Y LEVEL COMPONENT**, adjust so that the tops of the waveform line up as in the diagram below. (Fig. 10)

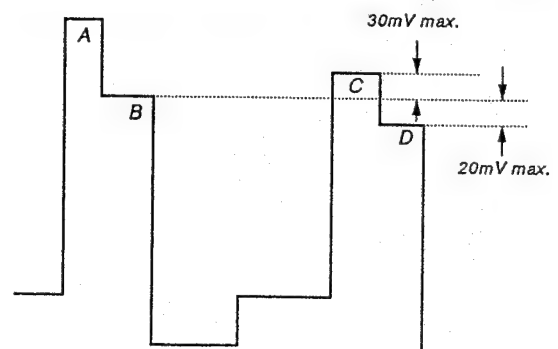


Fig. 10

Adjust so that B=D above (20 mV max.) Check that the difference between D and C is no greater than 30 mV

5. SMPTE SUB COLOR Adjustment

1. Input a component color bar (R-Y, Y, B-Y). (SMPTE level signal).
2. From the menu, make the Component Level N10/SMPTE.
3. Connect the oscilloscope probe to IC404 Pin 30 or TP402.
4. Put the unit into service mode.
5. In the same manner as in 4-5, adjust **SUB CHROMA N10/SMPTE**.

6. BURST GATE PULSE WIDTH Adjustment

1. Input an NTSC color bar.
2. Connect the oscilloscope probes to TP301 (COMP-SYNC) and Q363 or IC305 Pin 1. (Be careful! IC305 Pin 1 is a high-impedance line.)
3. Put the unit into service mode.
4. Adjust **BGP WIDTH** so that the output waveform has the relationship shown in Fig. 11.

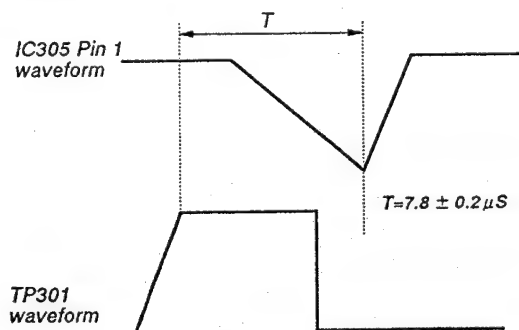


Fig. 11

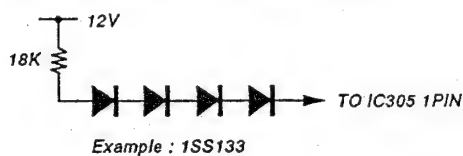
7. VXO Adjustment

1. X'tal 358

- 1) Input an NTSC color bar.
- 2) Connect the frequency counter to IC305 Pin 21.
- 3) Put the unit into service mode.
- 4) Connect the circuit on the below to IC305 Pin 1.
- 5) Adjust **CRYSTAL 358** so that the counter reading meets the standard below. (You can also just adjust for where the color flicker stops.)

X'tal 358

Standard level 3579545 ± 20Hz



(For connecting to Pin 1, have the four diodes as close to Pin 1 as possible to reduce the length of the wires.)

2. X'tal 443

- 1) Input a 443 NTSC color bar.
- 2) Connect the frequency counter to IC305 Pin 21.
- 3) Put the unit into service mode.
- 4) Connect to IC305 Pin 1 in the same manner as in 1-4).
- 5) Adjust Crystal 443 in the same manner as in 1-5).

X'tal 443

Standard level 4433619 ± 20Hz

8. NTSC COLOR DEMODULATION Adjustment

1. NTSC PHASE

- 1) Input NTSC color bar signal.
- 2) Connect the oscilloscope probe to TP306.
- 3) Set to service mode.
- 4) Adjust **NTSC PHASE** so that the output waveform burst section becomes a straight line. (Fig. 12)

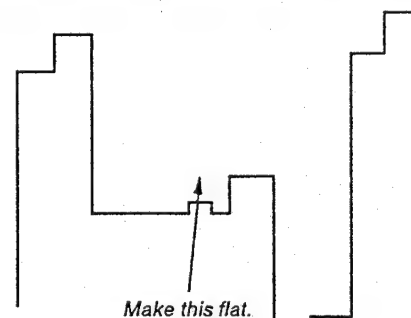


Fig. 12

2. NT358 B-Y PHASE

The phase adjustment must be carried out before the chroma adjustment.

- 1) Input an NTSC color bar.
(Input only the R-Y component. Have B-Y and Y off.)
- 2) Connect the oscilloscope probe to TP305.
- 3) Put the unit into service mode.
- 4) Adjust **B-Y PHASE NTSC 358** so that the color components form a straight line.

3. NT358 CHROMA (NORMAL)

- 1) Input an NTSC color bar.
- 2) Connect the oscilloscope probe to IC404 Pin 30 or TP402.
- 3) Put the unit into service mode.
- 4) Using **NTSC CHROMA NORMAL**, adjust so that the tops of the waveform line up as in the diagram below. (Fig. 13)

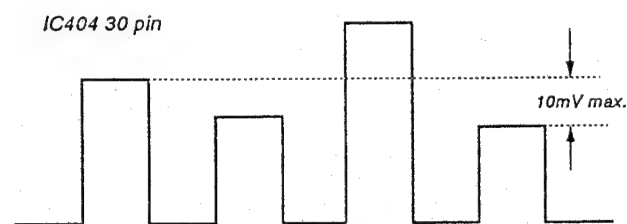


Fig. 13

Adjust so that the levels of the first peak and the fourth peak are the same.

4. NTSC 358 R-Y LEVEL

- 1) Input an NTSC358 color bar.
- 2) Connect the oscilloscope probe to IC404 Pin 41 or TP401.
- 3) Put the unit into service mode.
- 4) Using **R-Y LEVEL NTSC 358**, adjust so that the tops of the waveform line up as in the diagram below. (Fig. 14)

IC404 41 pin

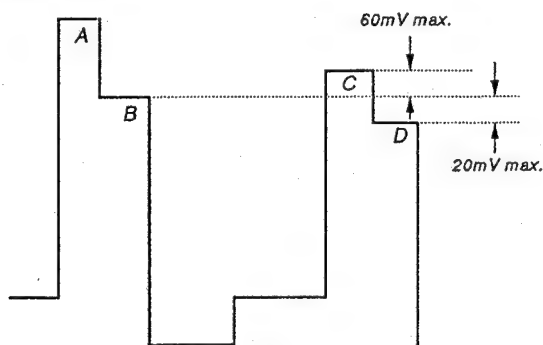


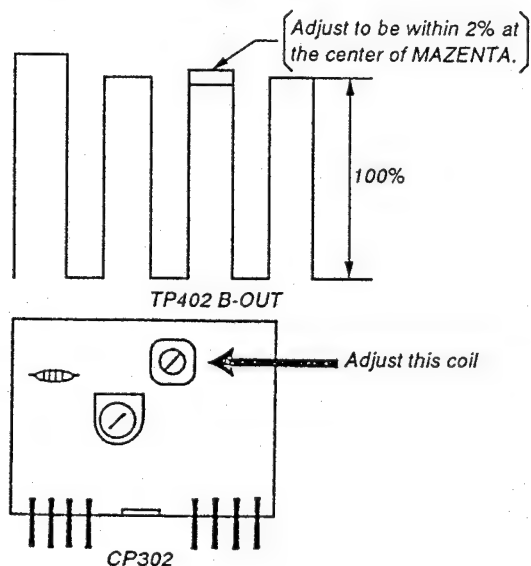
Fig. 14

Adjust so that B=D above (20 mV max.) Check that the difference between B and C is no greater than 60 mV.

5. PAL LINE CRAWLING

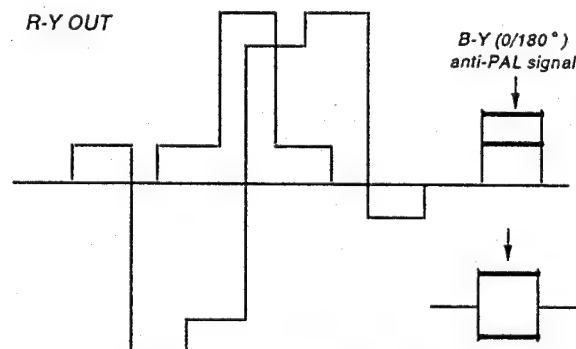
Note : Perform before PAL PHASE ADJUSTMENT.

- 1) Input a PAL color bar.
- 2) Connect the oscilloscope probe to TP402 (B-OUT)
- 3) Adjust the coil of CP302 so that the shaking of MAZENTA wave form become minimum.
Do not touch the RV at this time.



6. PAL PHASE (NORMAL)

- 1) Input a PAL SP color bar.
- 2) Connect the oscilloscope probe to TP306.
- 3) Put the unit into service mode.
- 4) Adjust **PHASE PAL NOR** so that the B-Y anti-PAL signal waveform is 0. (Fig. 15)



* Varies every H, although slightly, so adjust so that the average is 0.

Fig. 15

7. PAL B-Y PHASE

- 1) Input a PAL SP color bar.
- 2) Connect the oscilloscope probe to TP305.
- 3) Put the unit into service mode.
- 4) Adjust **B-Y PHASE PAL** so that the B-Y anti-PAL signal waveform is 0. (Fig. 16)

(R-Y OUT)

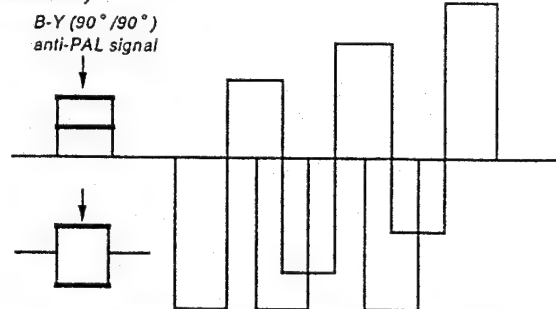


Fig. 16

* Varies every H, although slightly, so adjust so that the average is 0.

8. PAL CHROMA (NORMAL)

- 1) Input a PAL color bar.
- 2) Connect the oscilloscope probe to IC404 Pin 30 or TP402.
- 3) Put the unit into service mode.
- 4) Adjust **CHROMA PAL NOR** so that the tops of the waveform line up. (Fig. 17)

Adjust so that the B and D peaks are the same.

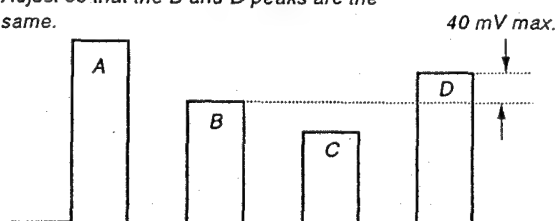


Fig. 17

9. PAL R-Y LEVEL

- 1) Input a PAL color bar.
- 2) Connect the oscilloscope probe to IC404 Pin 41 or TP401.
- 3) Put the unit into service mode.
- 4) Adjust **R-Y LEVEL PAL** so that the tops of the waveform line up as in the diagram below. (Fig. 18)

IC404 41 pin

Adjust so that B=D above

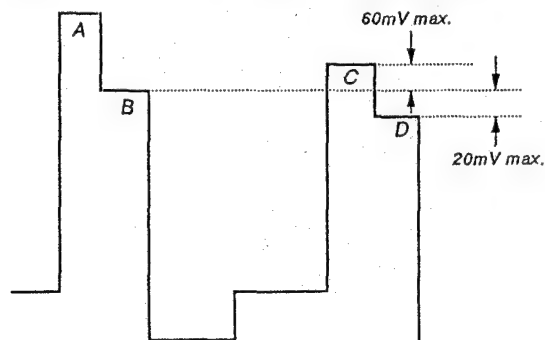


Fig. 18

9. Writing the adjustment result

1. Write the adjustment results into memory.

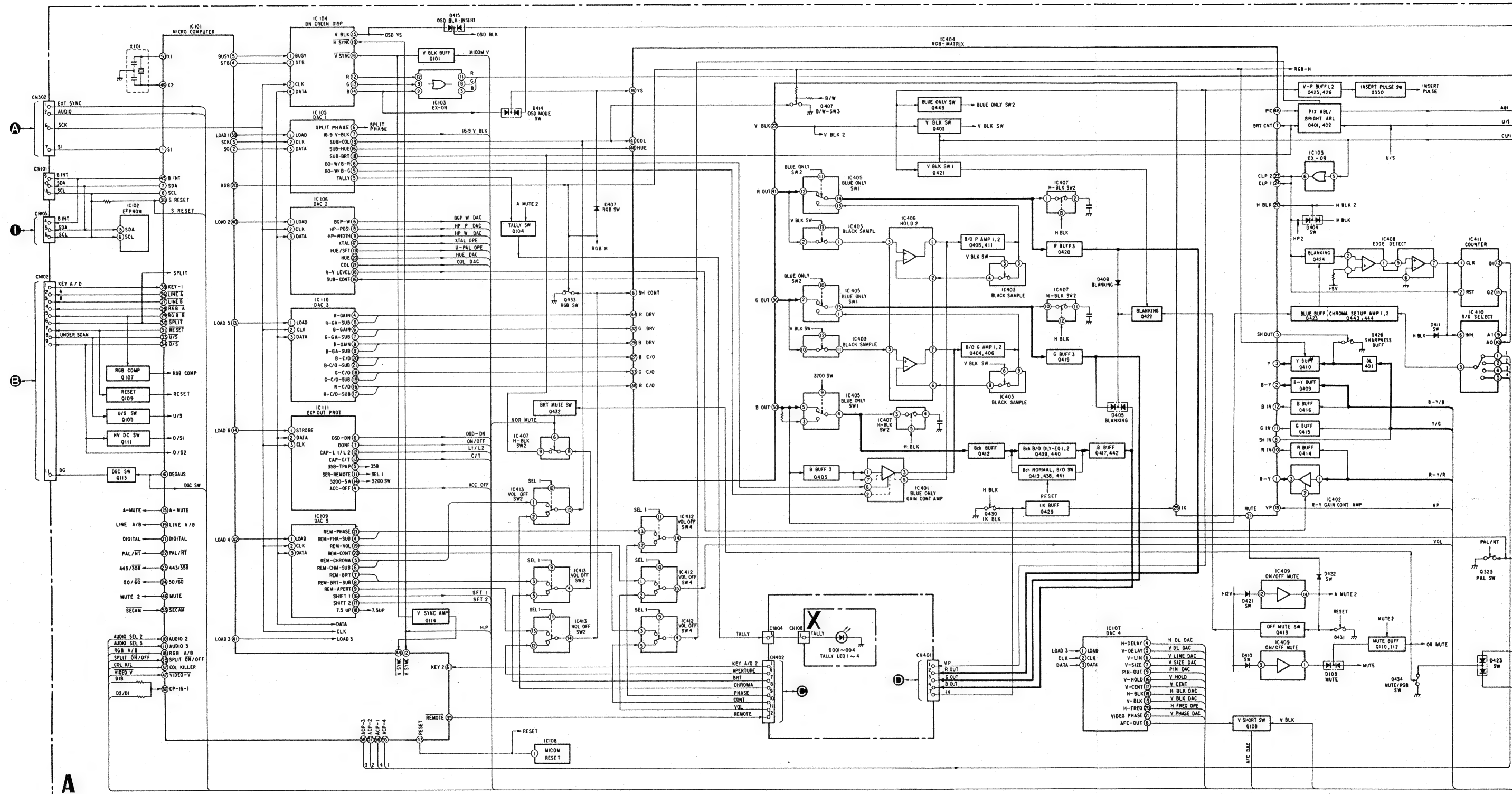
5-2. G BOARD ADJUSTMENT

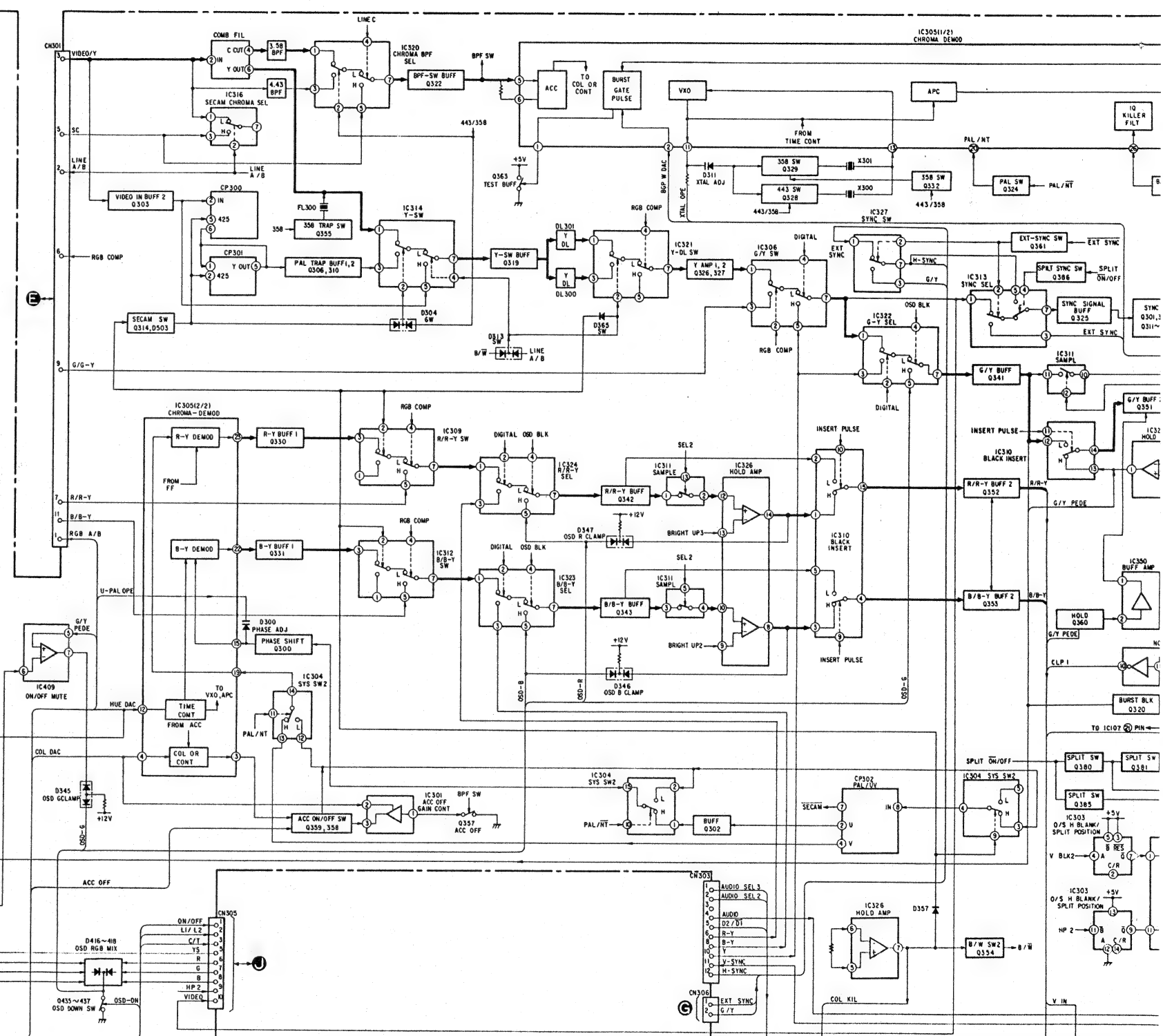
1. Checking the output lines

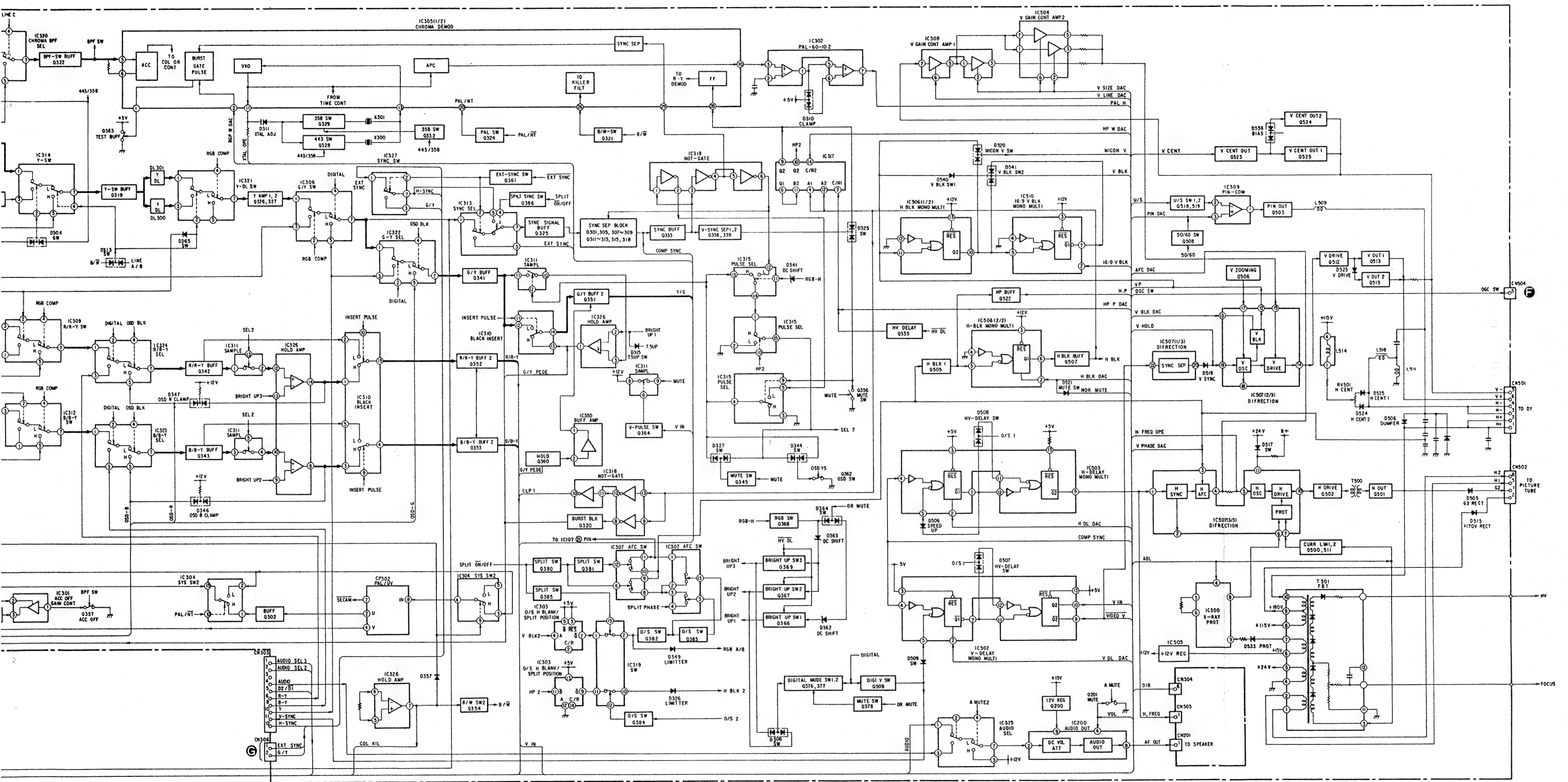
Check that the output lines meet the standards below.

15V	$16.0 \pm 1.0V$
5V(A)	$5.0 \pm 0.3V$
+B	$115 \pm 0.1V$
5V	$5.0 \pm 0.5V$

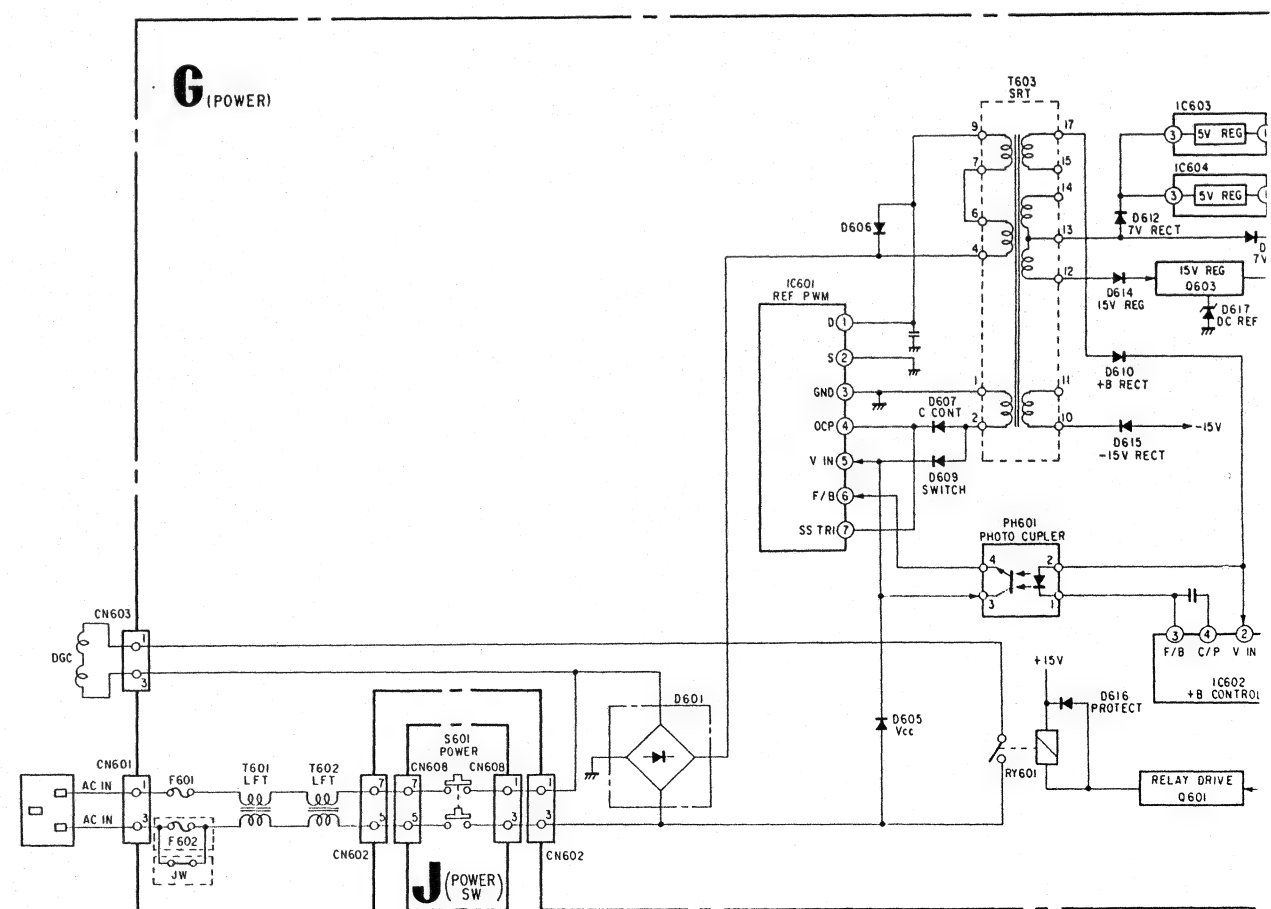
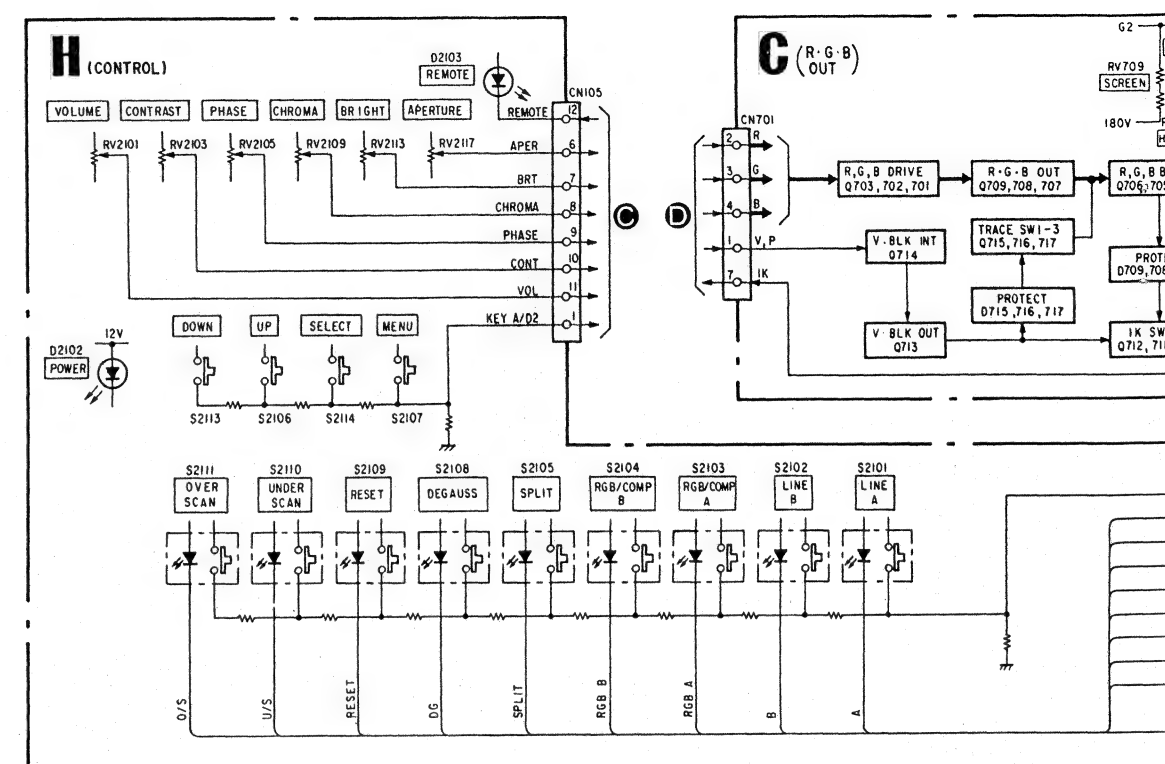
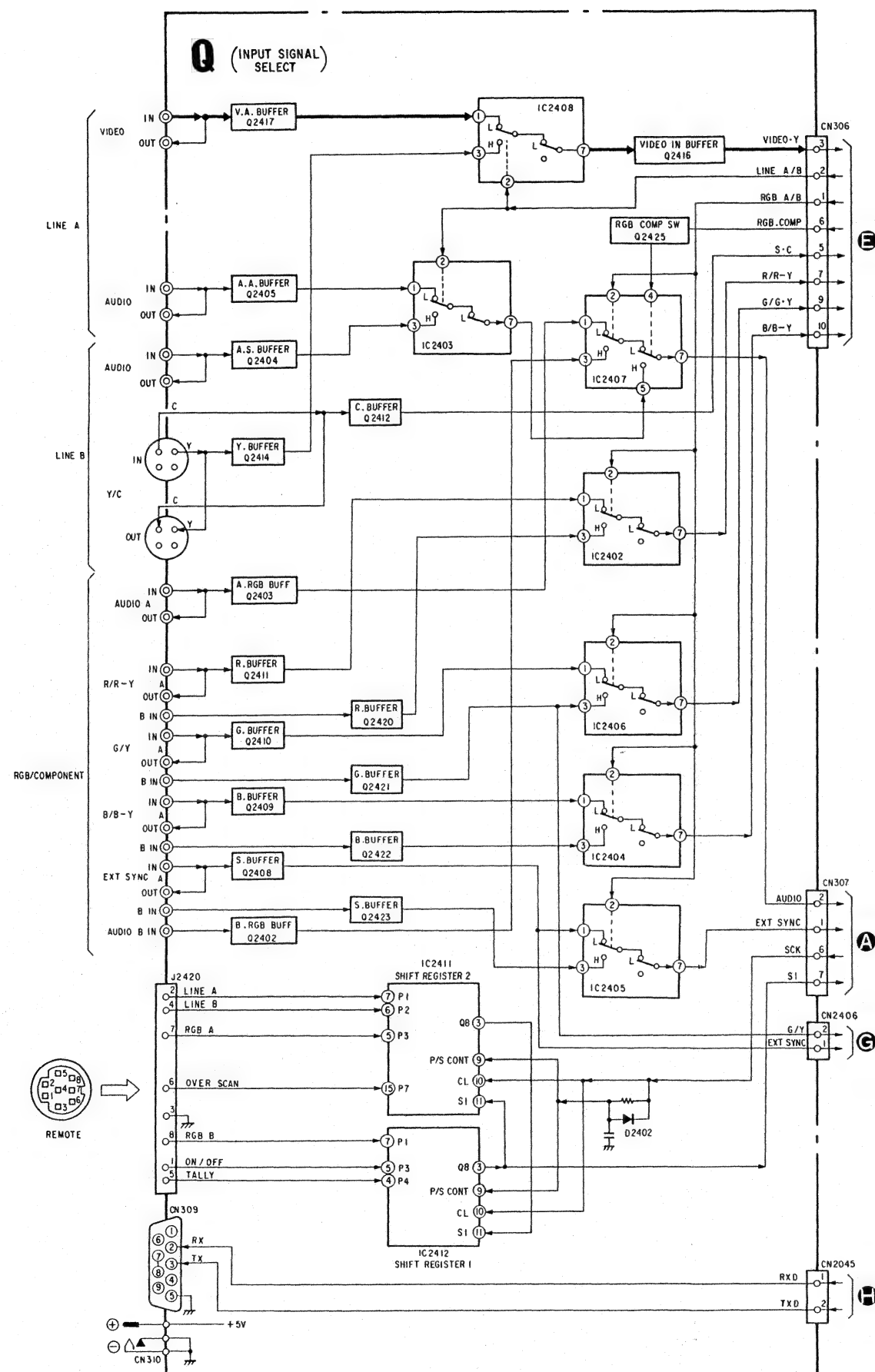
6-1. BLOCK DIAGRAMS (1)

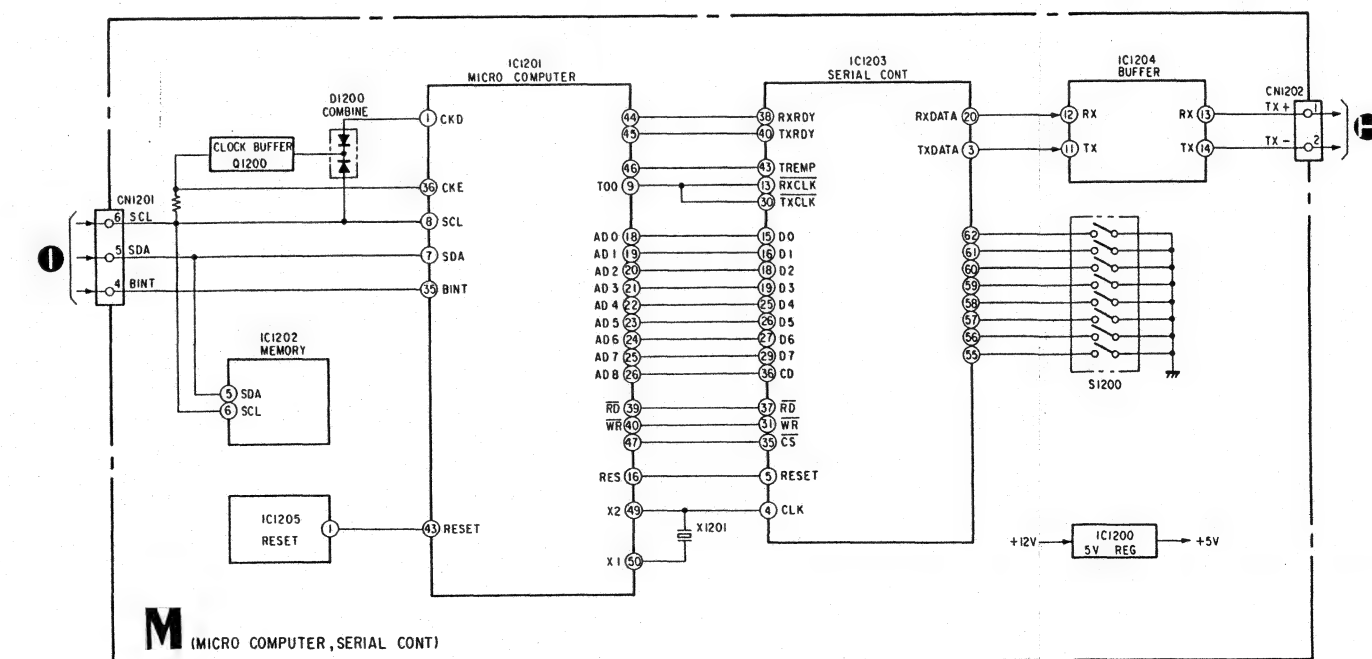
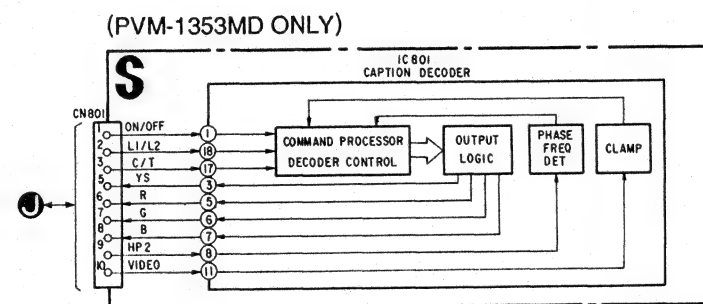
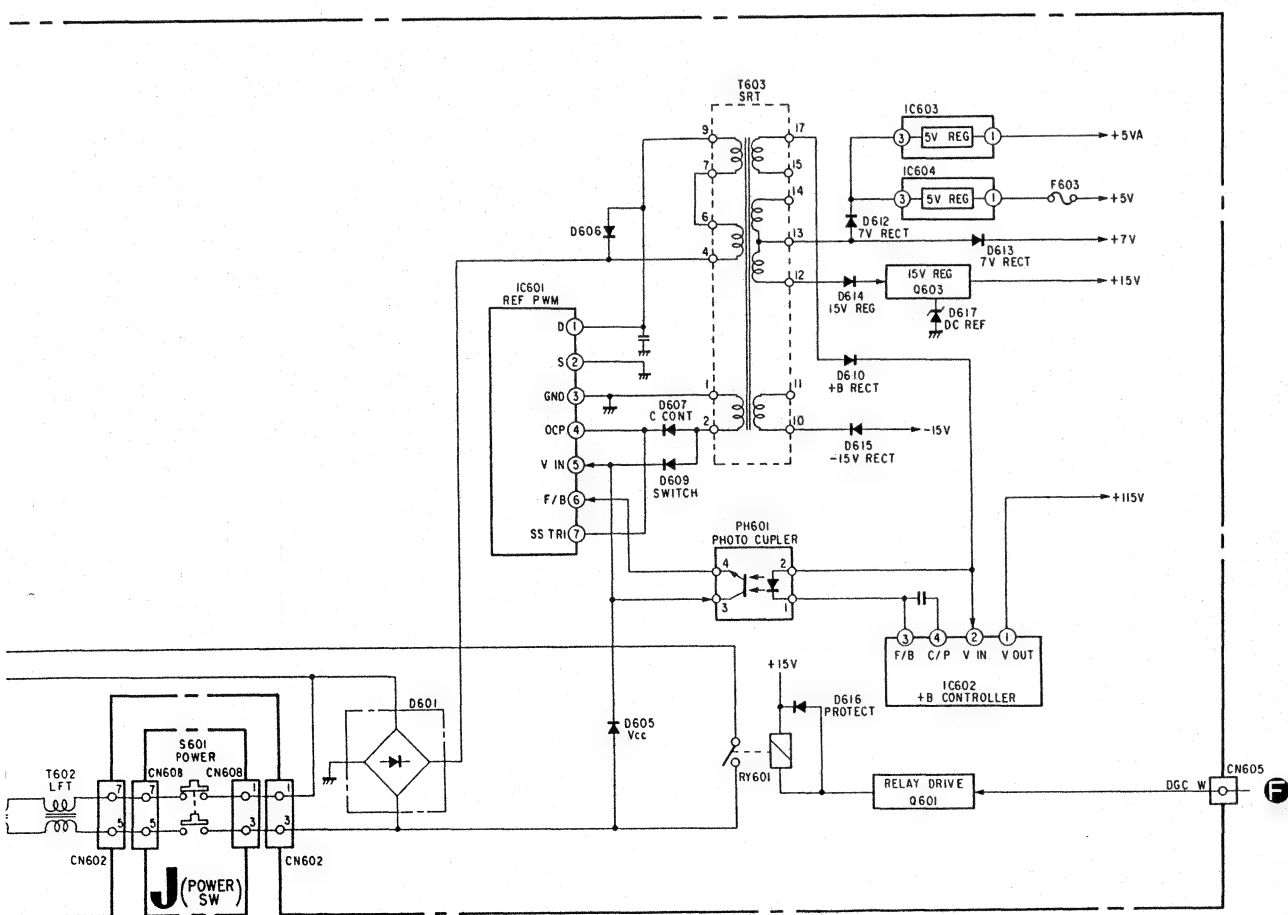
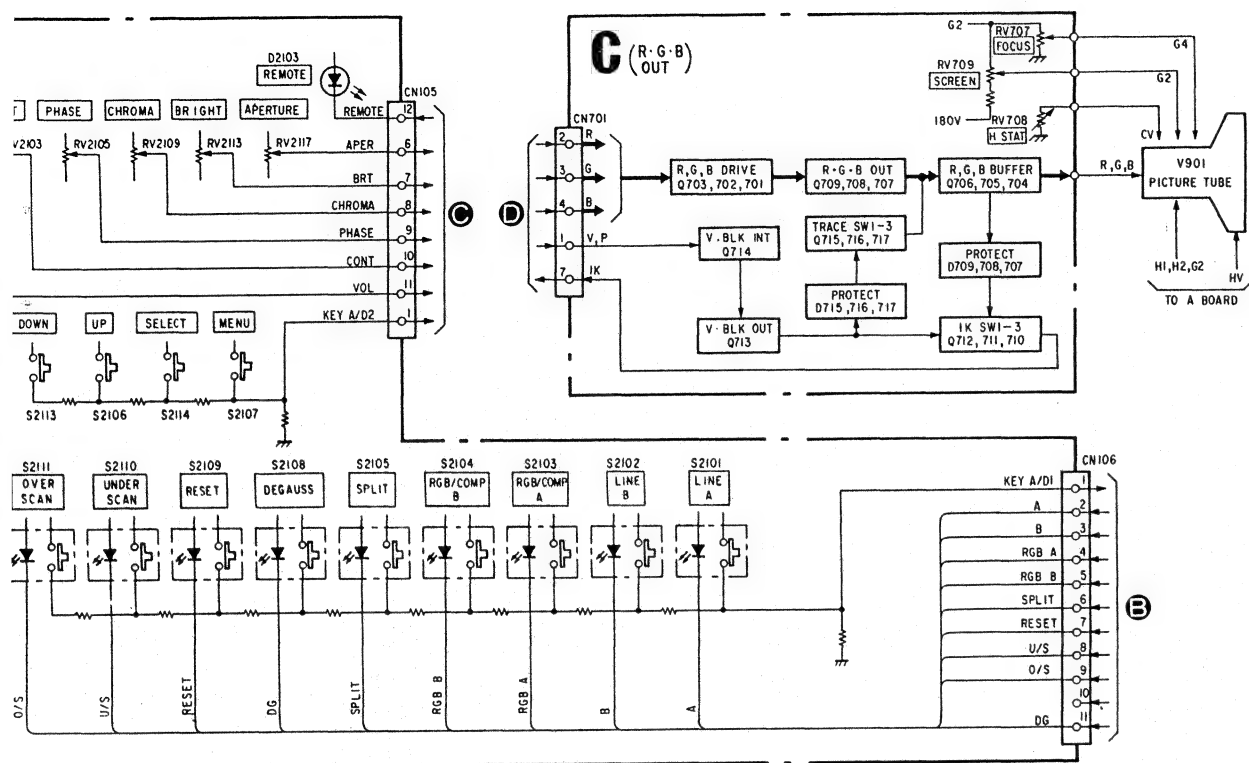




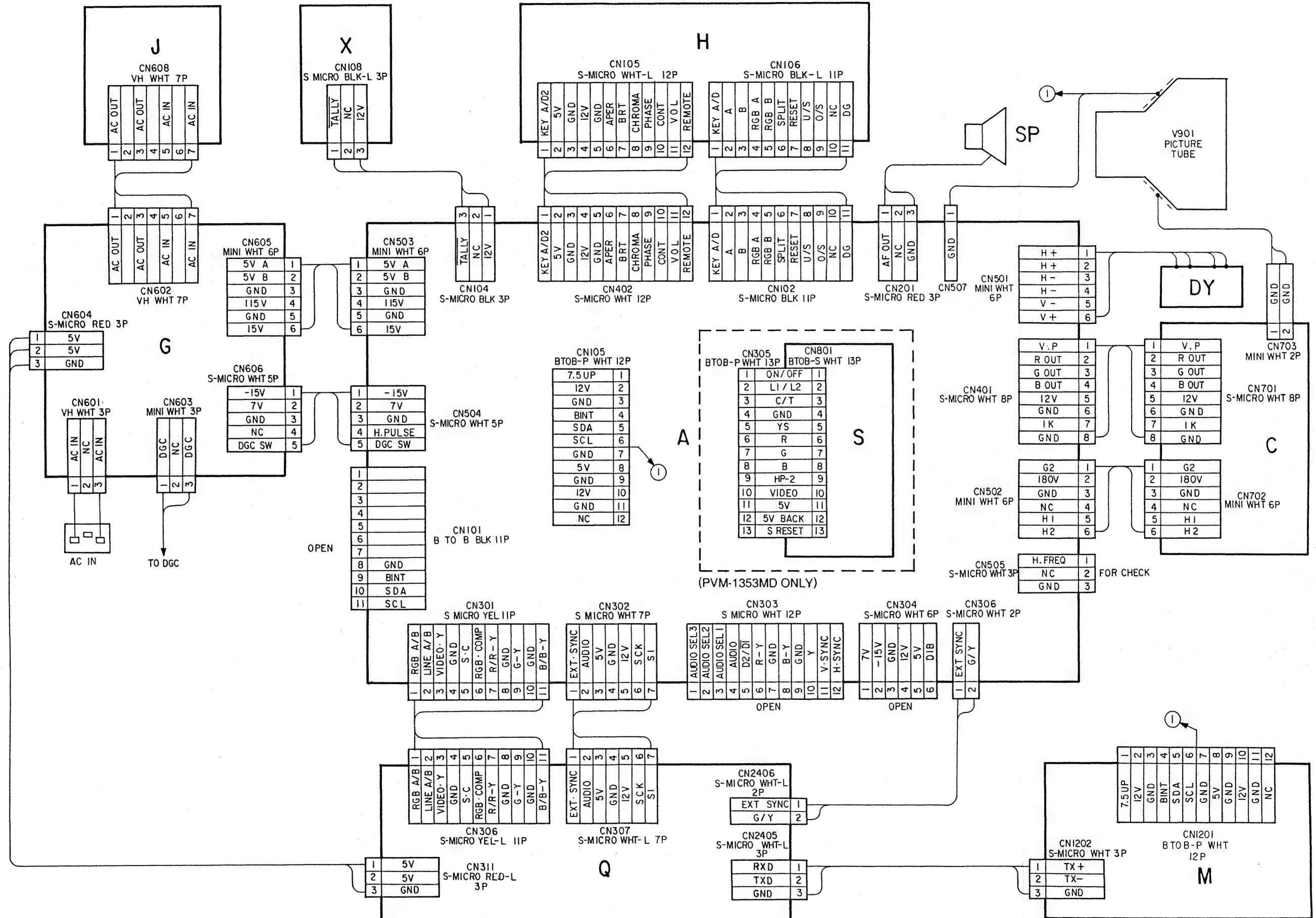


BLOCK DIAGRAMS (2)

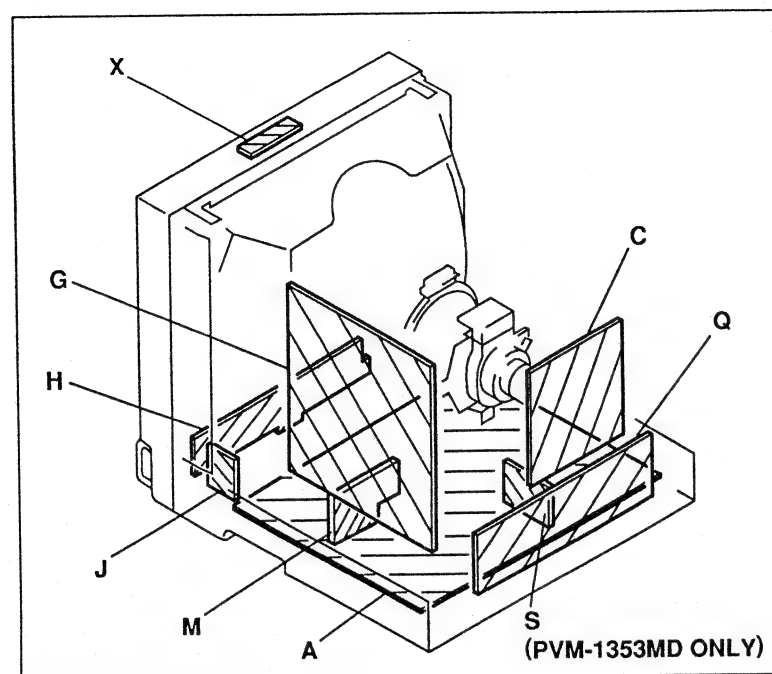




6-2. FRAME SCHEMATIC DIAGRAMS



6-3. CIRCUIT BOARDS LOCATION



6-4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note:

- All capacitors are in μF unless otherwise noted. pF: μF 50V or less are not indicated except for electrolytics.
- All electrolytics are in 50V unless otherwise specified.
- All resistors are in ohms, 1/4W in resistance, 1/10W in chip resistance. $\text{k}\Omega=1000\Omega$, $\text{M}\Omega=1000\text{k}\Omega$
- : nonflammable resistor.
- : fusible resistor.
- : internal component.
- : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- The components identified by in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by and repeat the adjustment until the specified value is achieved. (Refer to R1535, R1536 adjust on Page 36.)
- When replacing the part in below table, be sure to perform the related adjustment.

Part replaced ()	Adjustment ()
IC500, IC507, Q500, Q501, D501, D533, C506, C512, C513, C523, C549, C592, R506, R508, R515, R516, R517, R518, R519, R551, R1535, R1536, R1537, T501(A BOARD) IC602, C603(G BOARD)	R1535, R1536 (HOLD-DOWN)

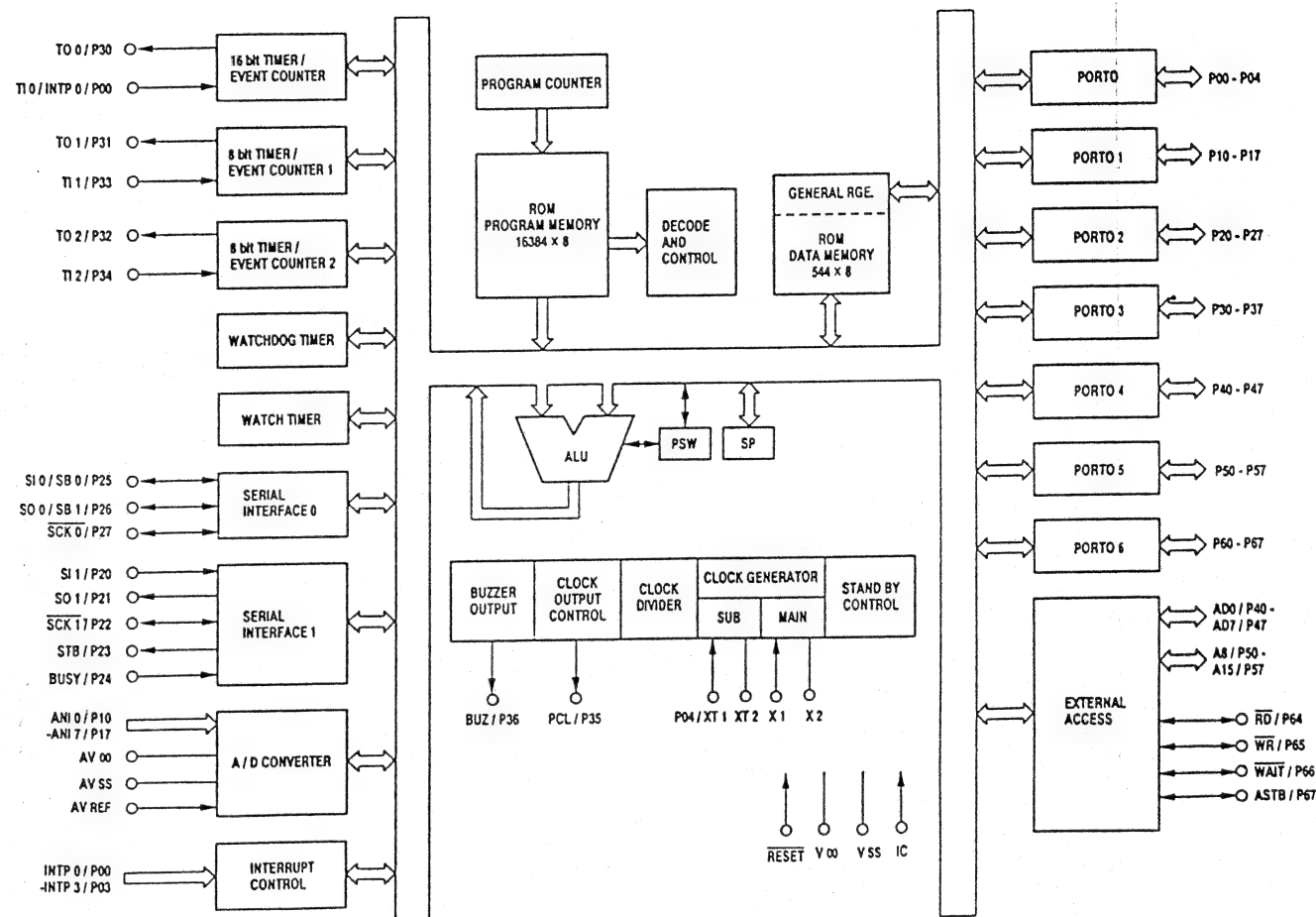
Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

- All voltage are in V.
- Voltage are dc with respect to ground unless otherwise noted.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- : B + bus.
- : B - bus.
- : Signal path.
- No mark : with PAL color-bar signal is received or common voltage.
- For the respective voltage ratings in NTSC 3.58, S-VIDEO and ANALOG RGB modes, see the table.

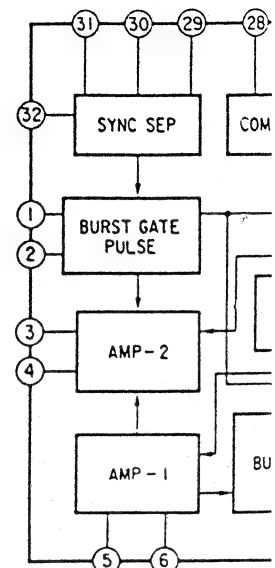
Reference Information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RW	NONFLAMMABLE WIREWOUND
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

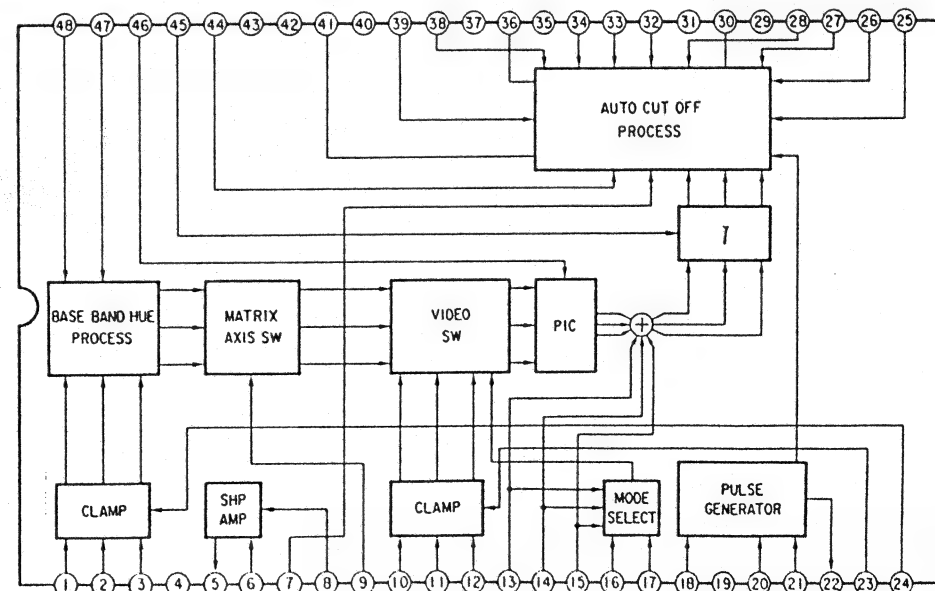
Note: Les composants identifiés par une trame et par une marque sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

A BOARD IC101 $\mu\text{PD78013YCW}$ 

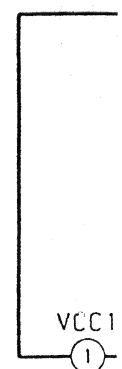
A BOARD IC305 M51

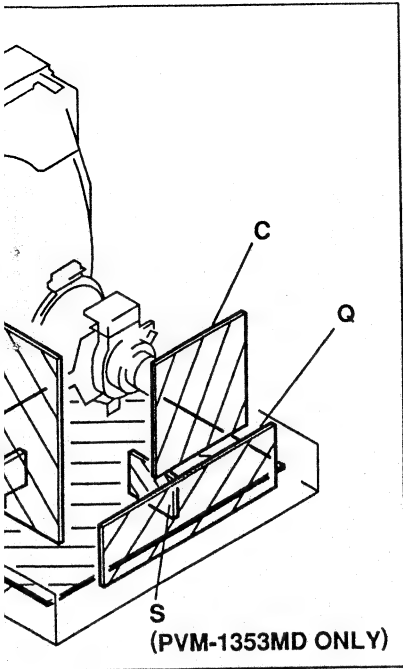


A BOARD IC404 CXA1478



A BOARD






DIAGRAMS

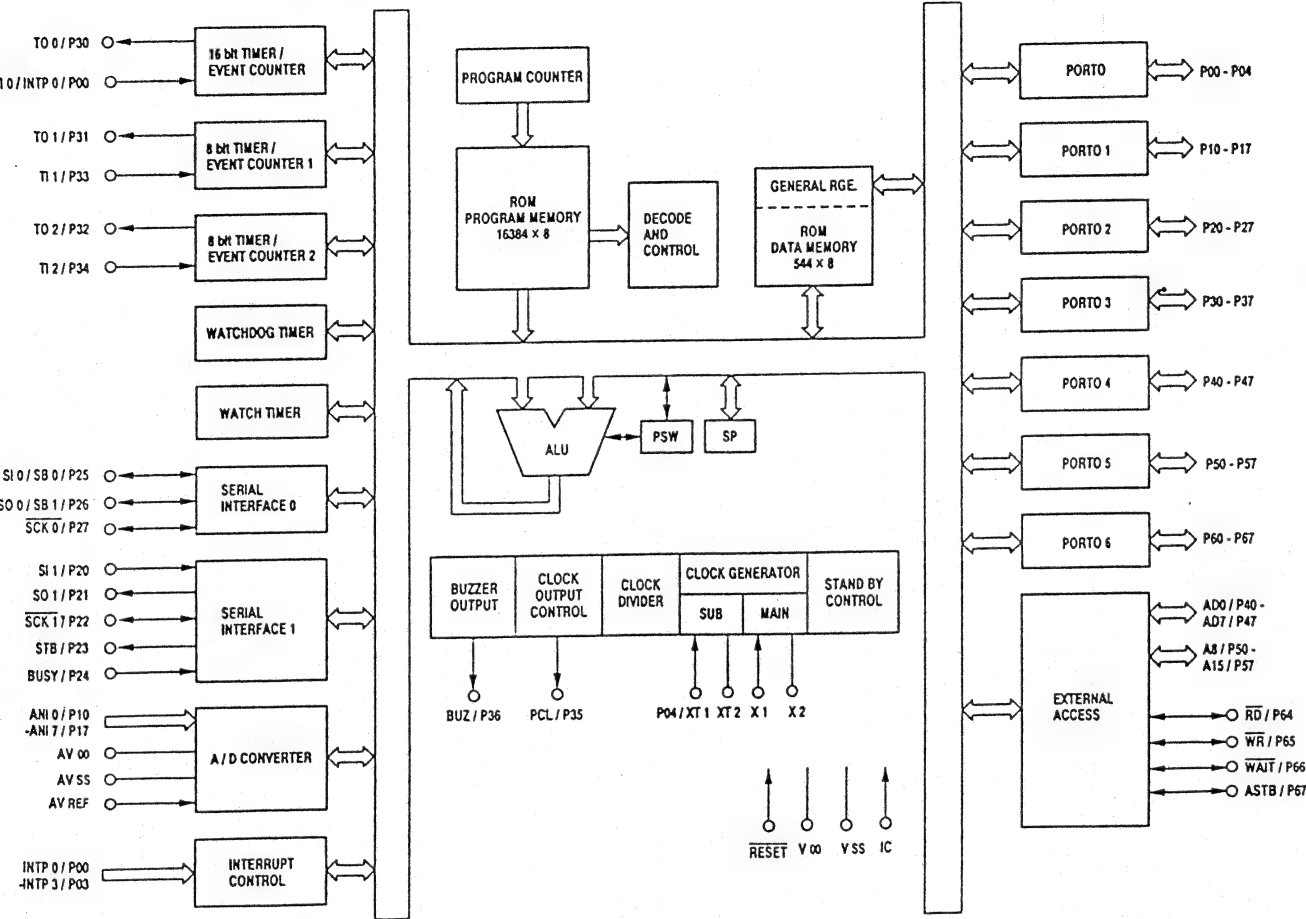
- All voltage are in V.
- Voltage are dc with respect to ground unless otherwise noted.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- — : B + bus.
- - - - : B - bus.
- → : Signal path.
- No mark : with PAL color-bar signal is received or common voltage.
- For the respective voltage ratings in NTSC 3.58, S-VIDEO and ANALOG RGB modes, see the table.

Reference Information

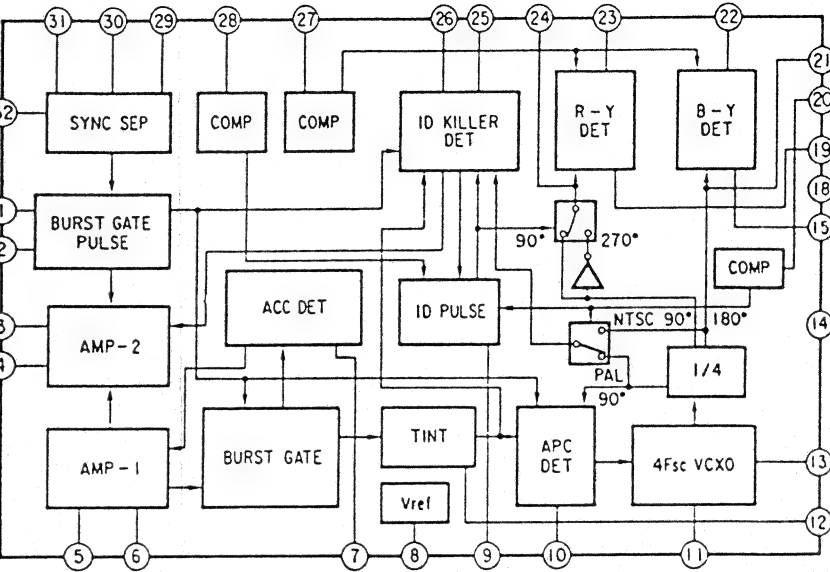
RESISTOR	:RN	METAL FILM
	:RC	SOLID
	:FPRD	NONFLAMMABLE CARBON
	:FUSE	NONFLAMMABLE FUSIBLE
	:RW	NONFLAMMABLE WIREWOUND
	:RS	NONFLAMMABLE METAL OXIDE
	:RB	NONFLAMMABLE CEMENT
COIL	:LF-8L	MICRO INDUCTOR
CAPACITOR	:TA	TANTALUM
	:PS	STYROL
	:PP	POLYPROPYLENE
	:PT	MYLAR
	:MPS	METALIZED POLYESTER
	:MPP	METALIZED POLYPROPYLENE
	:ALB	BIPOLAR
	:ALT	HIGH TEMPERATURE
	:ALR	HIGH RIPPLE

Note: Les composants identifiés par une trame et par une marque  sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

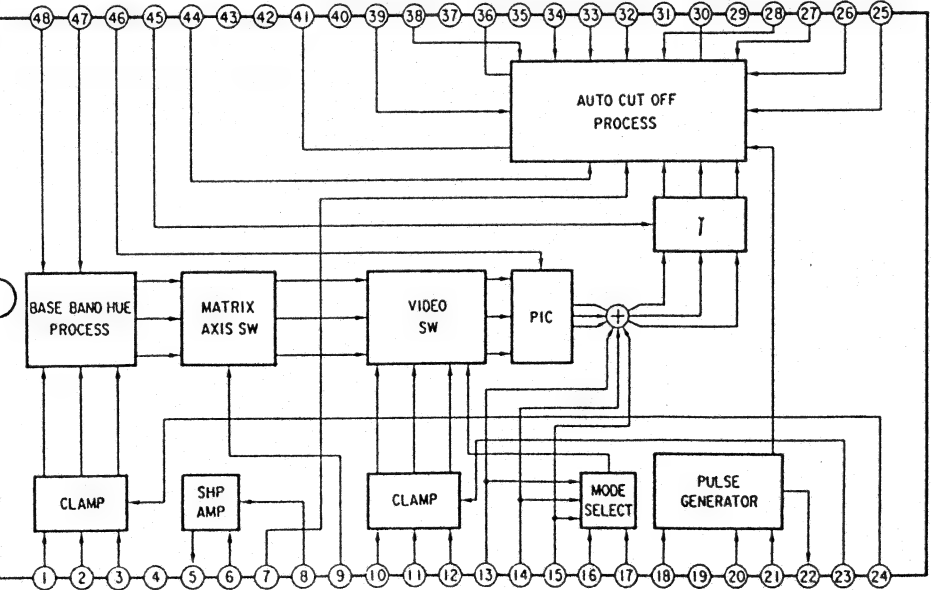
A BOARD IC101 μ PD78013YCW



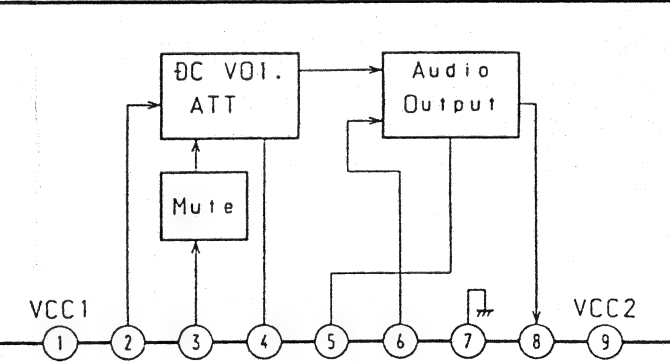
A BOARD IC305 M51279FP



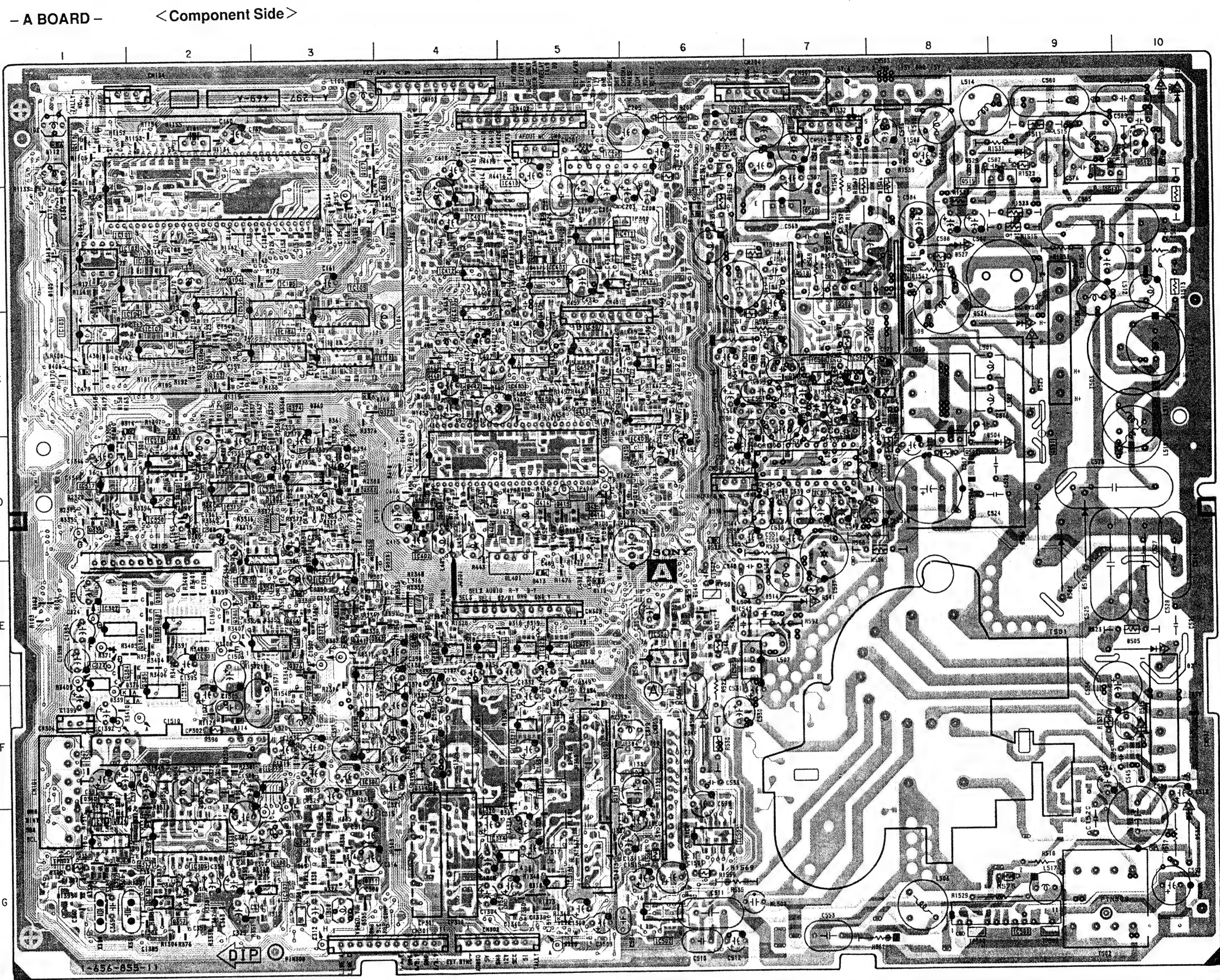
A BOARD IC404 CXA1478



A BOARD IC200 AN5265



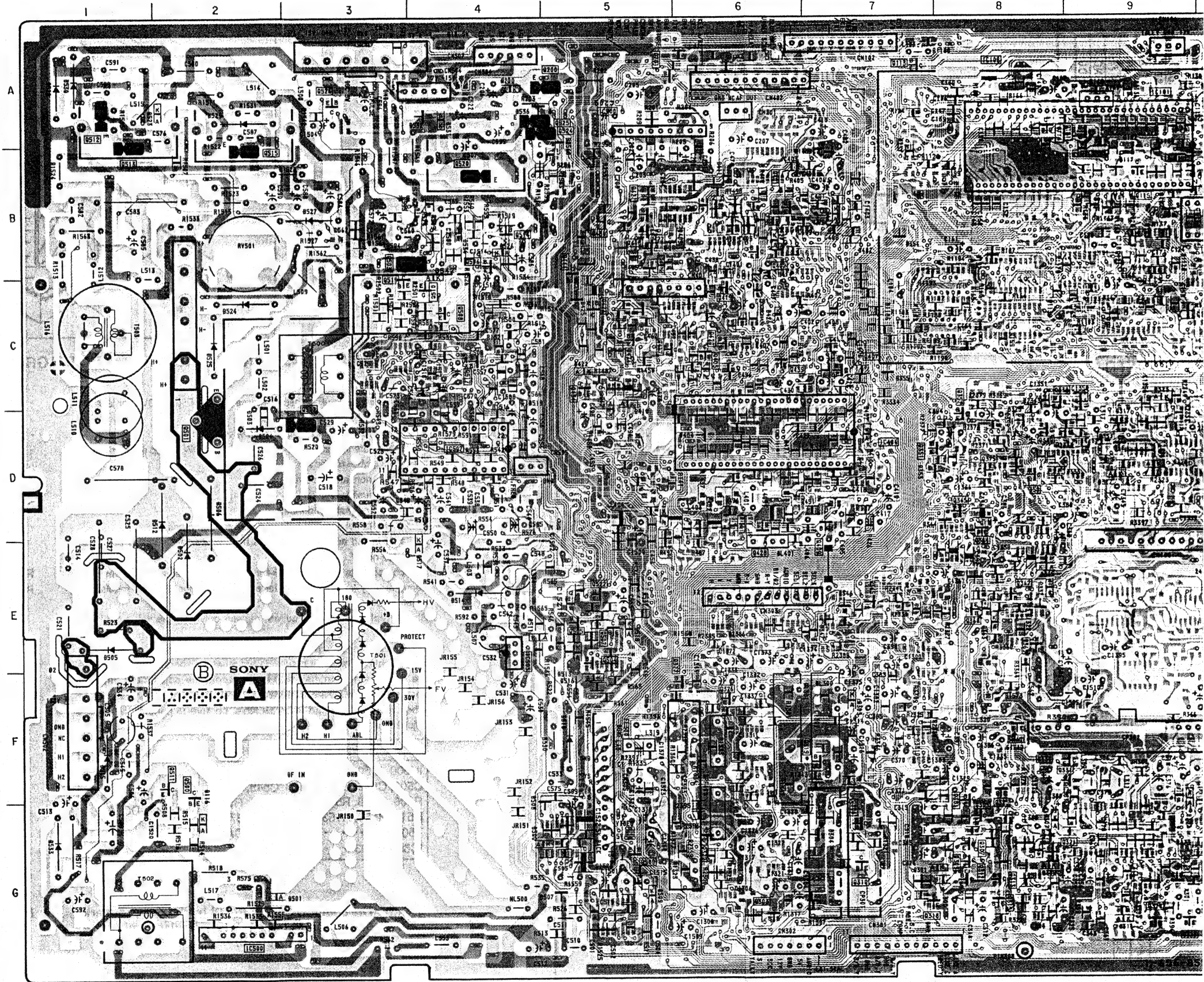
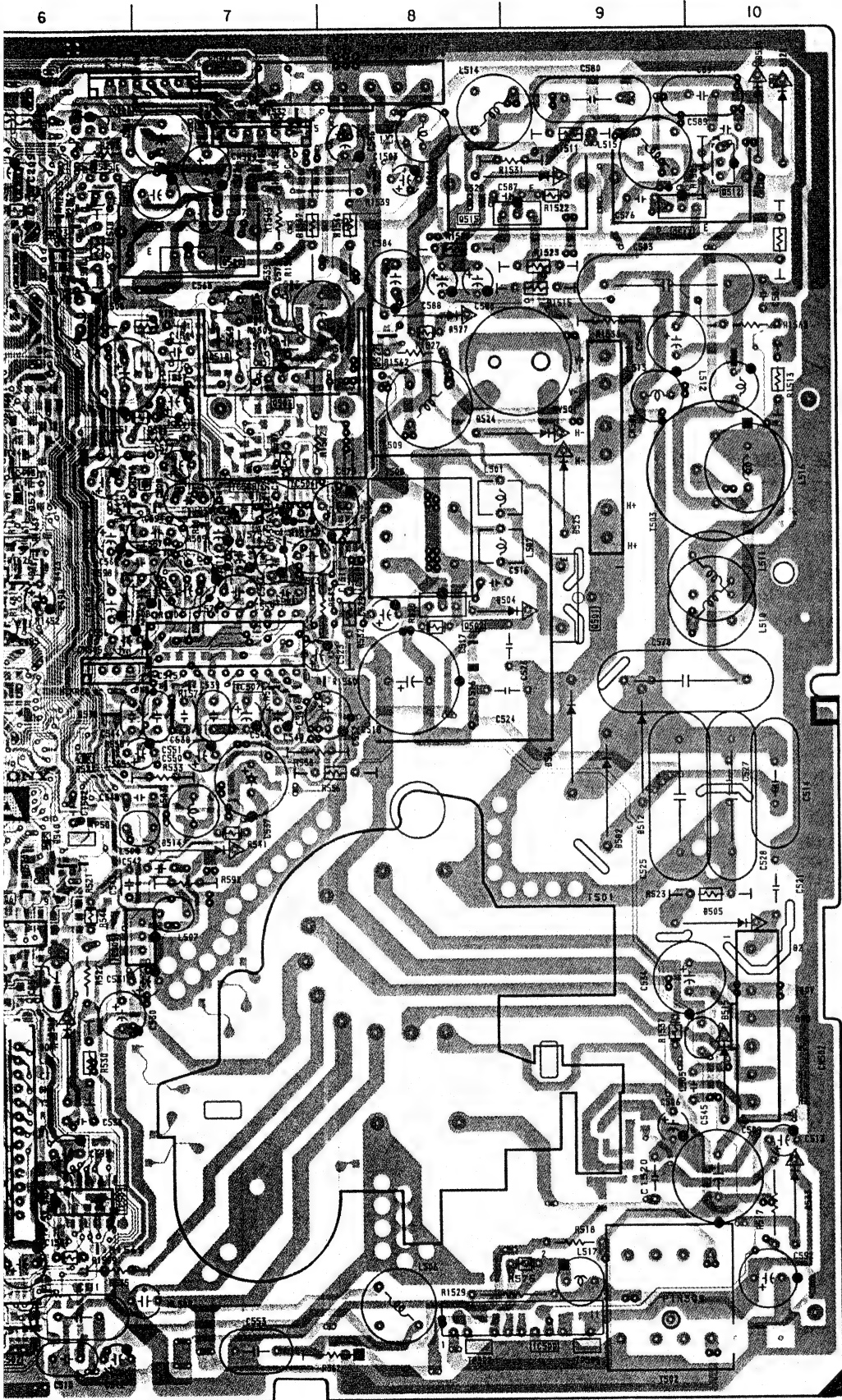
IC		Q107 A-3	Q523 B-6
IC101 B-2	Q108 C-2	Q524 A-6	
IC102 B-1	Q109 B-3	Q525 A-6	
IC103 C-1	Q110 A-1	Q527 B-8	
IC104 B-2	Q112 D-6	DIODE	
IC105 B-3	Q200 A-6	D100 D-5	
IC106 C-3	Q300 G-3	D104 B-1	
IC107 C-2	Q308 G-3	D105 B-1	
IC109 C-3	Q311 G-3	D106 B-4	
IC110 C-3	Q314 F-4	D108 E-5	
IC111 B-2	Q316 G-5	D109 A-1	
IC200 A-5	Q320 E-3	D113 B-5	
IC301 G-2	Q324 G-1	D114 F-2	
IC302 G-3	Q335 D-1	D300 G-2	
IC303 E-2	Q341 E-3	D305 G-3	
IC304 G-1	Q342 E-3	D306 E-3	
IC305 G-2	Q343 E-4	D308 F-2	
IC306 F-3	Q353 D-3	D313 G-5	
IC307 E-1	Q354 E-3	D314 C-1	
IC309 F-3	Q355 F-5	D324 G-5	
IC310 D-3	Q356 D-2	D326 F-1	
IC311 E-3	Q357 G-2	D327 D-3	
IC312 E-3	Q358 G-1	D332 E-3	
IC313 F-3	Q359 G-1	D335 G-5	
IC314 G-4	Q360 D-2	D338 E-3	
IC315 D-2	Q362 D-3	D339 F-1	
IC316 G-5	Q366 E-3	D341 C-3	
IC317 D-1	Q372 D-3	D360 C-3	
IC318 D-2	Q376 E-3	D361 C-3	
IC319 F-2	Q377 E-3	D362 E-3	
IC320 F-5	Q378 F-3	D365 G-4	
IC321 F-5	Q380 E-2	D381 D-2	
IC322 E-6	Q381 E-2	D406 C-1	
IC323 E-6	Q382 E-2	D414 D-4	
IC324 E-5	Q383 E-1	D415 D-5	
IC325 E-4	Q384 E-1	D416 D-4	
IC326 E-3	Q385 E-2	D417 D-4	
IC327 E-1	Q386 E-2	D418 D-4	
IC350 D-2	Q404 B-5	D423 C-6	
IC401 B-4	Q406 B-5	D424 B-5	
IC402 D-4	Q408 B-5	D502 E-9	
IC403 B-5	Q410 D-4	D504 D-9	
IC404 D-5	Q411 B-5	D505 E-10	
IC405 C-5	Q412 C-5	D506 D-9	
IC406 B-5	Q413 C-5	D510 F-6	
IC407 C-5	Q414 D-5	D512 D-9	
IC408 C-6	Q415 D-5	D514 E-7	
IC409 C-6	Q416 D-5	D515 F-10	
IC410 B-5	Q425 D-5	D520 E-6	
IC411 B-5	Q426 D-6	D521 C-6	
IC412 B-4	Q429 C-6	D522 D-6	
IC413 C-4	Q430 D-6	D524 C-9	
IC500 G-9	Q432 C-5	D525 C-9	
IC502 G-6	Q433 C-4	D527 B-8	
IC503 G-6	Q435 D-4	D528 A-10	
IC504 C-7	Q436 D-4	D529 A-9	
IC505 E-6	Q437 D-4	D530 A-10	
IC506 E-6	Q438 C-5	D533 G-10	
IC507 D-7	Q440 C-4	D535 B-6	
IC508 C-7	Q441 C-4	D537 A-7	
IC509 C-8	Q442 C-4	D538 D-6	
IC510 E-3	Q445 C-5	D539 B-7	
	Q501 D-9	D540 E-6	
	Q502 D-8	D541 F-3	
	Q503 B-7		
	Q512 A-10		
	Q513 B-9		
	Q515 B-9		
	Q518 B-7		
	Q520 B-7		
TRANSISTOR		VARIABLE RESISTOR	
Q102 C-2		RV501 B-9	
Q103 C-2			
Q104 B-2			
Q105 A-3			



- A

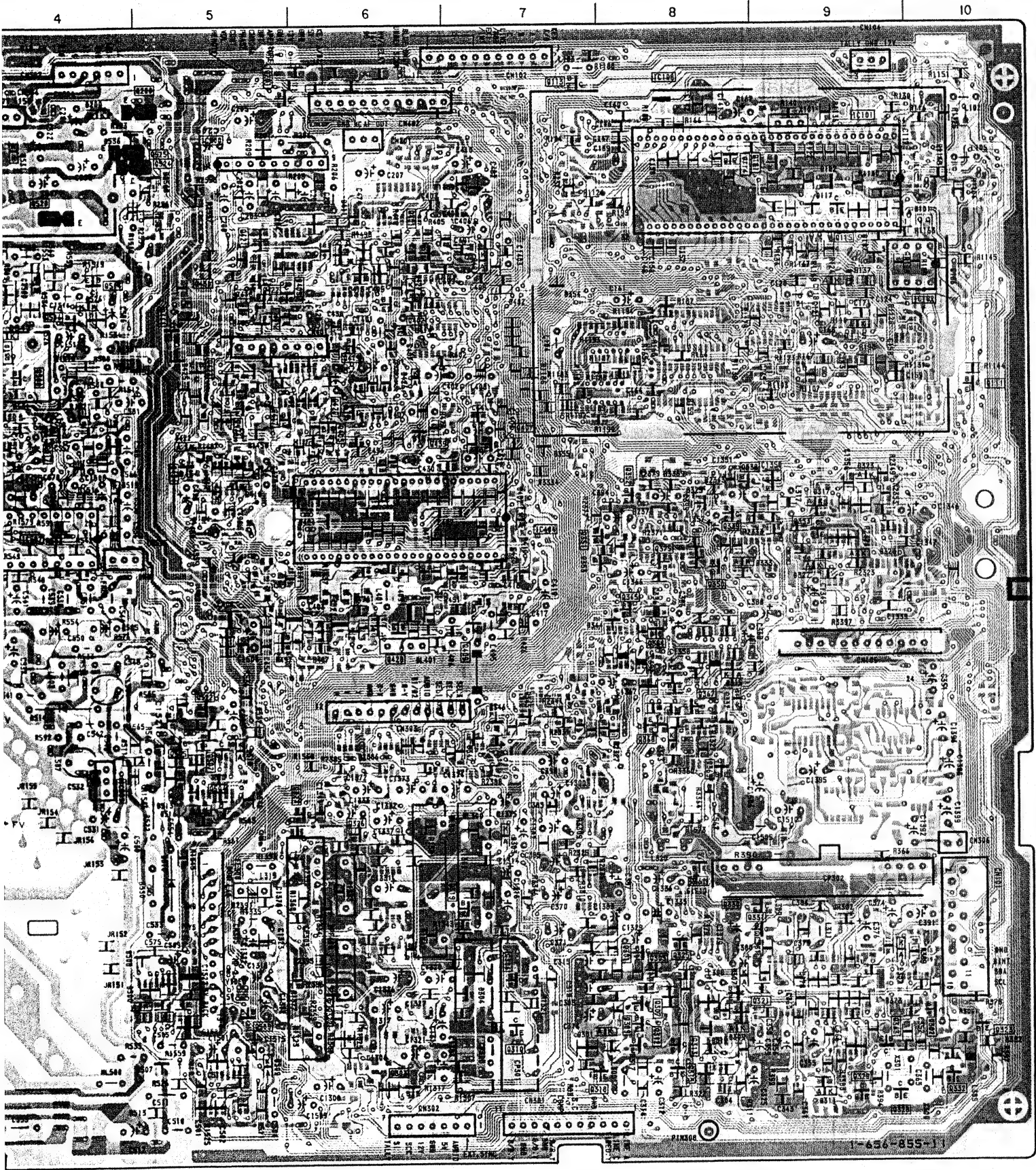
MICON, RGB-MATRIX, DAC,
ON SCREEN DISPLAY, ON/OFF MUTE,
VOL OFF SW, BLACK-SAMPLING, RGB SW
- CHROMA DEMOD, SECAM CHROMA SELECT, SYSTEM SW,
SYNC SELECT, B/B-Y SW, R/R-Y SW, G/Y SW,
AUDIO SELECT, SECAM DECODER, HOLD AMP
- H/V OUT, DEFLECTION SYSTEM,
AUDIO OUT

< Conductor Side >



SECAM CHROMA SELECT, SYSTEM SW,
B-Y SW, R/R-Y SW, G/Y SW,
ECAM DECORDER, HOLD AMP

H/V OUT, DEFLECTION SYSTEM,
AUDIO OUT



A BOARD
(CONDUCTOR SIDE)

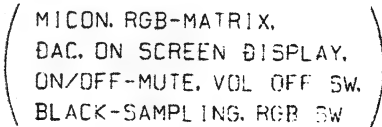
IC		Q508	C-4
IC108	A-8	Q509	G-5
		Q510	C-4
		Q511	F-2
		Q514	B-4
TRANSISTOR		Q517	C-4
		Q519	C-3
		Q522	E-5
		Q526	A-3
		DIODE	
Q101	A-9	D101	B-10
Q111	C-10	D102	A-9
Q113	A-7	D103	B-9
Q114	A-8	D107	B-9
Q115	B-9	D111	B-9
Q201	A-5	D115	B-9
Q301	F-8	D116	G-2
Q302	G-10	D200	A-4
Q303	G-6	D301	G-7
Q305	G-8	D302	F-9
Q306	G-7	D303	F-7
Q307	G-8	D304	G-7
Q309	G-8	D307	G-8
Q310	G-7	D309	G-8
Q312	G-8	D310	G-8
Q313	G-8	D311	G-9
Q315	G-8	D315	E-8
Q318	G-7	D317	D-9
Q319	F-7	D320	D-9
Q321	G-8	D322	D-9
Q322	G-6	D323	C-9
Q323	G-10	D325	D-8
Q325	F-8	D333	D-8
Q326	F-6	D337	E-8
Q327	F-6	D344	D-8
Q328	G-9	D345	E-7
Q329	G-9	D346	E-7
Q330	F-9	D347	E-7
Q331	F-9	D363	E-8
Q332	G-10	D364	E-8
Q333	D-9	D401	B-7
Q338	C-8	D404	D-6
Q339	D-8	D405	B-5
Q345	D-8	D407	D-7
Q350	D-8	D408	B-5
Q351	D-7	D410	C-5
Q352	C-8	D411	B-6
Q361	F-8	D421	C-5
Q363	G-9	D422	C-5
Q364	D-8	D425	C-5
Q367	E-8	D426	C-6
Q368	E-8	D427	B-6
Q369	E-8	D500	G-4
Q401	B-6	D501	G-2
Q402	B-6	D503	D-2
Q403	B-6	D507	G-5
Q405	C-6	D508	F-4
Q407	C-7	D509	G-5
Q409	D-7	D513	E-5
Q417	C-5	D516	F-5
Q418	B-5	D517	E-4
Q419	C-6	D518	E-5
Q420	C-6	D519	C-4
Q421	B-5	D523	A-2
Q422	B-5	D526	B-4
Q423	C-5	D531	A-4
Q424	C-5	D532	A-4
Q428	D-6	D534	B-4
Q431	B-5	D536	A-4
Q434	C-5	D542	B-4
Q439	C-6		
Q443	C-5		
Q444	B-5		
Q500	F-2		
Q505	E-5		
Q506	B-4		
Q507	E-5		

Note:

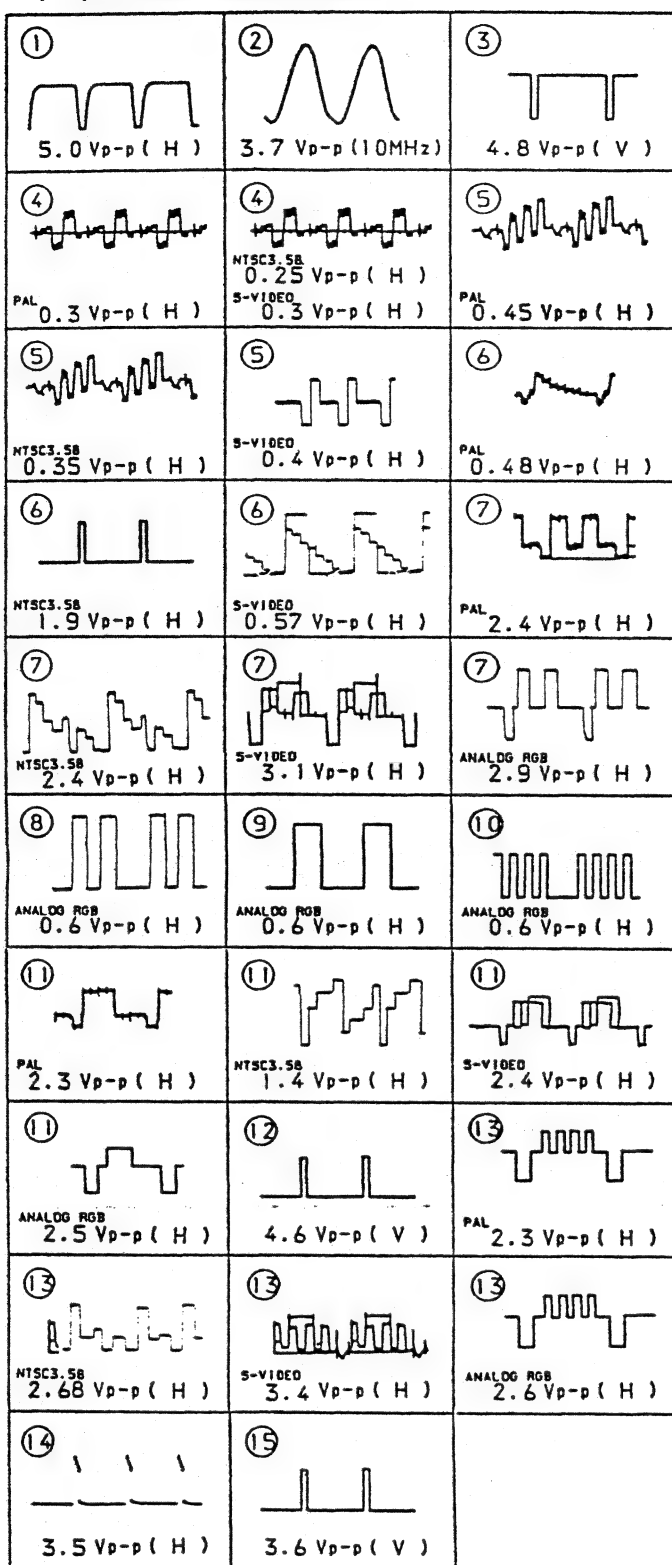
- Pattern from the side which enables seeing.
- Pattern of the rear.

NOTE:

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.



A (1/3) BOARD WAVEFORMS



A (1/3) BOARD * MARK

	PAL	NTSC 3.58	S-VIDEO	ANALOG RGB
IC101 ②	1.9	1.9	1.9	1.9
③	4.3	4.3	4.3	4.3
④	4.1	0	0	0
⑤	3.6	3.6	3.6	3.6
⑥	0	0	4.7	0
⑦	0	0	0	4.7
⑧	4.9	0	0	0
⑨	4.8	0	0	0
⑩	4.8	0	0	0
⑪	4.8	4.8	4.7	4.7
⑫	0.1	0.1	4.9	4.8
⑬	4.8	4.8	4.8	0.1
⑭	4.8	4.8	4.8	0.1
⑮	4.8	4.8	4.8	0
⑯	3.4	3.4	3.4	3.4
⑰	0.7	0.6	0.8	0.9
⑱	0	0	0	0
⑲	4.2	4.3	4.3	4.3
⑳	0	0	0	0
㉑	0	0	0	0
㉒	0	0	0	0
㉓	0	0	0	0
㉔	0	0	0	0
㉕	0	0	0	0
IC103 ⑥	0.2	0.2	0	0
IC104 ④	2.3	2.2	2.0	2.3
⑤	3.5	3.5	3.1	3.5
IC105 ③	2.3	2.2	0	2.3
④	0	0.1	11.8	0
⑤	2.6	2.7	2.8	2.6
⑥	5.4	5.4	6.6	8.1
IC106 ③	2.3	2.2	2.1	2.3
④	5.4	5.4	4.1	5.4
⑤	2.4	2.4	0.6	2.4
⑥	7.8	7.8	5.5	7.8
⑦	5.1	5.1	4.0	5.1
⑧	0.1	10.5	10.9	10.5
⑨	3.1	2.6	2.7	2.5
⑩	2.4	2.1	2.1	3.2
⑪	6.3	11.9	10.7	3.7
⑫	3.6	4.8	4.3	9.5
⑬	0.8	0.4	2.4	3.1
IC107 ②	4.6	4.5	4.4	4.5
③	2.3	2.2	2.1	0
④	2.8	2.8	3.3	2.8
⑤	1.5	1.4	2.3	1.4
⑥	2.9	2.9	2.1	2.9
⑦	2.6	2.6	2.9	2.6
⑧	2.9	2.9	2.6	2.9
⑨	2.6	2.8	2.8	2.8
⑩	3.2	5.4	5.3	5.4
⑪	4.5	5.0	3.7	5.0
⑫	6.3	6.1	6.0	6.1
IC109 ②	4.6	4.5	4.4	4.4
③	2.3	2.2	2.1	2.3
④	11.9	11.9	11.9	0.1
⑤	11.9	0.1	0.1	11.8
IC110 ②	2.3	2.2	2.0	2.2
③	7.2	7.2	8.3	7.2
④	5.8	5.8	6.2	5.8
⑤	11.9	11.9	7.8	11.9
⑥	0	7.9	7.8	7.9
IC111 ②	2.3	2.2	2.0	2.2
③	0.3	0.3	0	0.3
④	0.2	0.1	0.1	0.1
⑤	0	5.0	0	5.0
⑥	5.0	5.0	0	5.0
IC402 ②	3.1	2.9	3.0	3.6
③	0	2.3	2.2	2.2
④	2.9	2.9	2.9	2.9
IC403 ①	0.8	0.8	0.8	0
②	1.2	0.8	1.2	0.9
③	1.4	0.9	1.3	0
④	0.8	0.9	0.8	1.4
⑤	0.6	0.6	0	0.6
⑥	0.5	0.6	0.6	0
⑦	1.0	1.0	0.8	1.1
⑧	1.6	1.1	1.4	1.6
⑨	1.4	1.0	1.2	1.5
⑩	0.9	1.0	0.8	1.1
⑪	0.6	0.6	0	0.6

	PAL	NTSC 3.58	S-VIDEO	ANALOG RGB
IC404 ⑥	3.0	3.0	4.5	0
⑦	4.9	4.9	4.7	6.1
⑧	5.6	5.6	5.6	5.8
⑨	5.6	5.6	5.6	5.8
⑩	0	0	0	4.4
⑪	3.8	4.1	4.0	3.6
⑫	7.1	8.0	7.7	7.9
⑬	1.4	1.2	1.2	1.4
⑭	7.0	8.1	7.8	7.8
⑮	1.4	1.2	1.2	1.5
⑯	7.8	7.7	8.0	7.7
⑰	6.9	7.8	7.6	7.6
⑱	1.2	1.0	1.2	1.3
⑲	7.2	7.2	8.3	7.2
㉑	7.2	7.2	6.9	7.0
㉒	6.6	6.6	5.5	0
IC405 ①	1.6	1.1	1.4	1.6
②	1.4	0.9	1.2	1.5
③	1.2	0.9	1.1	1.2
④	1.4	1.0	1.2	1.4
⑤	1.3	1.0	1.2	1.4
⑥	0.5	0.6	0.3	0.2
⑦	0.5	0.6	0.3	0.2
⑧	1.2	0.8	1.2	1.3
⑨	1.4	0.9	1.3	1.4
⑩	1.2	0.8	1.2	1.3
⑪	1.4	1.0	1.2	1.5
IC406 ①	4.8	4.8	4.8	5.1
②	0.8	0.9	0.8	1.0
③	1.0	1.0	0.8	1.1
④	1.0	1.1	0.8	1.1
⑤	5.1	4.9	4.9	5.1
IC407 ①	1.2	0.9	1.2	1.3
②	0.4	0.5	0.4	0.5
③	1.4	1.0	1.2	1.4
④	0.6	0.7	0.5	0.7
⑤	2.0	2.0	2.0	2.0
⑥	11.7	11.6	11.7	11.2
⑦	5.5	5.5	5.4	8.5
⑧	5.5	5.5	5.4	8.4
⑨	1.4	1.0	1.2	1.5
⑩	0.6	0.7	0.5	0.6
⑪	2.0	2.0	2.0	2.0
⑫	2.0	2.0	2.0	2.0
IC408 ①	3.1	2.9	3.7	3.4
②	4.1	3.9	4.2	4.1
IC409 ①	0	9.0	0	7.5
②	0	0.4	0.3	1.6
③	5.9	6.3	5.9	5.9
④	5.9	6.3	5.9	5.9
⑤	5.9	6.3	5.9	5.9
⑥	0.1	0.5	0.1	0
⑦	0	6.6	0	10.7
IC410 ①	3.8	4.0	0	3.9
②	3.0	2.4	0	4.0
③	1.3	1.4	2.3	1.5
④	3.5	3.0	3.9	3.9
⑤	0.6	1.1	3.1	1.7
⑥	4.0	4.0	0	0
⑦	0	1.9	2.5	1.4
⑧	2.0	2.3	1.8	3.0
IC411 ①	4.1	3.9	4.2	4.1
②	1.8	1.9	2.5	1.3
③	2.0	2.3	1.8	3.0
IC412 ②	0.4	0.4	5.9	0.6
③	8.9	8.9	8.9	8.3
④	9.0	9.0	8.9	8.3
⑤	6.0	6.0	6.0	0
⑥	0.4	0.4	5.9	0.5
IC413 ②	7.9	8.0	0	6.9
③	0	5.5	5.4	0
④	5.5	5.5	5.4	8.6
⑤	3.1	3.1	0	5.1
⑥	3.1	3.1	6.0	5.1
⑦	7.9	8.0	6.3	6.9
Q102 B	10.9	10.9	10.7	10.9
C	8.1	8.1	0	8.1
E	11.5	11.5	11.3	11.5
Q104-1 B	-0.2	-0.2	0	-0.2
Q107 B	5.0	5.0	5.0	0.1
C	0	0	0	5.0
Q108 C	2.6	2.6	2.9	2.6
E	2.6	2.6	2.9	2.6
Q111 B	5.0	0	4.9	4.9
C	0.4	0	0.4	0.4
Q113 C	4.1	4.2	3.8	4.0

	PA
Q401 B	1.
C	7.
E	1.
Q402 B	0.
C	9.
E	1.
Q404 B	5.
E	6.
Q405 B	1.
Q406 B	0.
C	1.
Q407 B	0.
C	6.
Q408 B	5.
E	6.
Q409 B	1.
E	2.
Q411 C	1.
Q412 B	1.
E	2.
Q413 G	2.
D	2.
S	2.
Q417 B	1.
Q418 C	2.
Q419 B	1.
E	2.
Q420 B	1.
E	1.
Q422 C	2.
Q423 B	0.
Q425 C	4.
Q426 C	0.
Q429 B	0.
E	0.
Q432 B	-0.
C	11.
Q433 B	0.
C	3.
Q434 B	-0.
C	3.
Q438 B	-0.
C	11.
Q439 B	2.
E	2.
Q440 B	2.
Q441 G	-1.
D	2.
S	2.
Q442 B	1.
E	0.
Q444 C	1.
Q445 C	0.

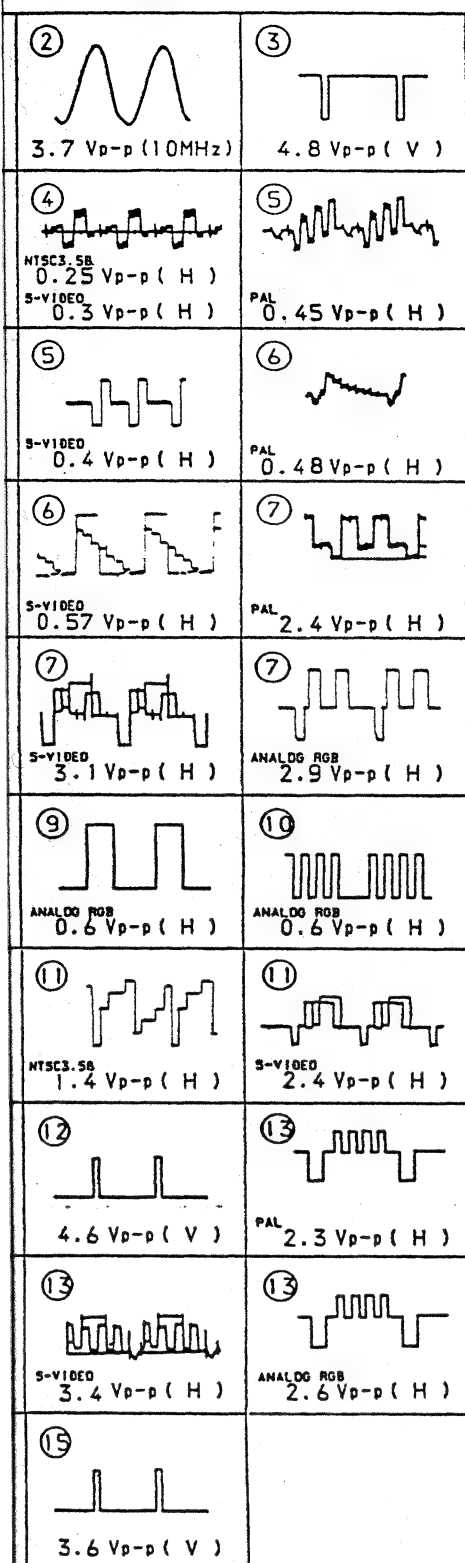
A (1/3) BOARD

IC101	MICON	Q110	MUTE BUFFER	Q430	IK BLK	D404	SW
IC102	EPROM	Q111	HV DC SW	Q431	RESET MUTE SW	D405	BLANKING
IC103	EX-OR	Q112	MUTE BUFFER	Q432	BRIGHT MUTE SW	D406	SW SLICE
IC104	ON SCREEN DISPLAY	Q113	DGC SW	Q433	RGB SW	D407	RGB SW
IC105	DAC 1	Q114	V SYNC AMP	Q434	MUTE RGB SW	D408	BLANKING
IC106	DAC 2	Q115	MIS ACTION PROTECT	Q435	OSD DOWN SW	D410	SW
IC107	DAC 4	Q401	BRIGHT ABL	Q436	OSD DOWN SW	D411	SW
IC108	MICON RESET	Q402	PIY ABL	Q437	OSD DOWN SW	D414	OSD MODE SW
IC109	DAC 5	Q403	V-BLK-SW	Q438	BLUE ONLY SW	D415	OSD BLK-INSERT
IC110	DAC 3	Q404	B/O G AMP 9	Q439	BCH B/O DLY-EQ 1	D416	OSD B MIX
IC111	EXP-OUT-PORI	Q405	B-BUFF 3	Q440	BCH B/O DLY-EQ 2	D417	OSD G MIX
IC401	BLUE-ONLY GAIN-CONT AMP	Q406	B/O G AMP 2	Q441	BCH B/O SW	D418	OSD R MIX
IC402	R-Y GAIN-CONT AMP	Q407	B/W-SW3	Q442	BCH BUFFER	D421	SW
IC403	BLACK-SAMPLING	Q408	B/O R AMP 1	Q443	AUTO CMROMA SET UP AMP 1	D422	SW
IC404	RGB-MATRIX	Q409	B-Y-BUFF	Q444	AUTO CMROMA SET UP AMP 2	D423	CLAMP
IC405	BL-ONLY-SW 1	Q410	Y BUFFER	Q445	BLUE ONLY SW	D424	PROTECT
IC406	HOLD 2	Q411	B/O R AMP 2			D425	CLAMP
IC407	H-BLK-SW 2	Q412	BCH BUFFER			D426	D. C. SHIFT
IC408	EDGE DETECT	Q413	BCH NORMAL SW	D100		D427	PROTECT
IC409	ON/OFF-MUTE	Q414	R BUFFER	D101	PROTECT		
IC410	SIG SELECT	Q415	G BUFFER	D102	PROTECT		
IC411	COUNTER	Q416	B BUFFER	D103	OSP POSITION ADJ		
IC412	VOL OFF SW 4	Q417	B-BUFF	D104	PROTECT		
IC413	VOL OFF SW 2	Q418	OFF-MUTE-SW	D105	PROTECT		
		Q419	G-BUFF 3	D106			
		Q420	R-BUFF 3	D107	PROTECT		
		Q421	V-BLK-SW 1	D108			
Q101	V-BLK BUFFER	Q422	BLANKING	D109	MUTE		
Q102	R-Y C/B BUFFER	Q423	BLUE BUFFER	D111	PROTECT		
Q103	B-Y C/B BUFFER	Q424	BLK	D113	D. C. SHIFT		
Q104	TALLY SW	Q425	V-P BUFFER 1	D114	SW		
Q105	U/C SW	Q426	V-P BUFFER 2	D115	PROTECT		
Q107	RGB COMP	Q428	SHARPNESS BUFFER	D335	SW		
Q108	V SHORT SW	Q429	IK BUFFER	D401	SW 15		
Q109	RESET						

Schematic diagram

A (1/3) board

WAVEFORMS



A (1/3) BOARD * MARK

	PAL	NTSC 3.58	S-VIDEO	ANALOG RGB
IC101 ②	1.9	1.9	1.9	1.9
③	4.3	4.3	4.3	4.3
④	4.1	0	0	0
⑤	3.6	3.6	3.6	3.6
⑥	0	0	4.7	0
⑦	0	0	0	4.7
⑧	4.9	0	0	0
⑨	4.8	0	0	0
⑩	4.8	0	0	0
⑪	4.8	4.8	4.7	4.7
⑫	0.1	0.1	4.9	4.8
⑬	4.8	4.8	4.8	0.1
⑭	4.8	4.8	4.8	0
⑮	3.4	3.4	3.4	3.4
⑯	0.7	0.6	0.8	0.9
⑰	0	0	0	0
⑱	4.2	4.3	4.3	4.3
⑲	0	0	0	0
⑳	0	0	0	0
㉑	0	0	0	0
㉒	0	0	0	0
㉓	0	0	0	0
IC103 ①	0.2	0.2	0	0
IC104 ①	2.3	2.2	2.0	2.3
②	3.5	3.5	3.1	3.5
IC105 ①	2.3	2.2	0	2.3
②	0	0.1	11.8	0
③	2.6	2.7	2.8	2.6
④	5.4	5.4	6.6	8.1
IC106 ①	2.3	2.2	2.1	2.3
②	5.4	5.4	4.1	5.4
③	2.4	2.4	0.6	2.4
④	7.8	7.8	5.5	7.8
⑤	5.1	5.1	4.0	5.1
⑥	0.1	10.5	10.9	10.5
⑦	3.1	2.6	2.7	2.5
⑧	2.4	2.1	2.1	3.2
⑨	6.3	11.9	10.7	3.7
⑩	3.6	4.8	4.3	9.5
⑪	0.8	0.4	2.4	3.1
IC107 ①	4.6	4.5	4.4	4.5
②	2.3	2.2	2.1	0
③	2.8	2.8	3.3	2.8
④	1.5	1.4	2.3	1.4
⑤	2.9	2.9	2.1	2.9
⑥	2.6	2.6	2.9	2.6
⑦	2.9	2.9	2.6	2.9
⑧	2.6	2.8	2.8	2.8
⑨	3.2	5.4	5.3	5.4
⑩	4.5	5.0	3.7	5.0
⑪	6.3	6.1	6.0	6.1
IC109 ①	4.6	4.5	4.4	4.4
②	2.3	2.2	2.1	2.3
③	11.9	11.9	11.9	0.1
④	11.9	0.1	0.1	11.8
IC110 ①	2.3	2.2	2.0	2.2
②	7.2	7.2	8.3	7.2
③	5.8	5.8	6.2	5.8
④	11.9	11.9	7.8	11.9
⑤	0	7.9	7.8	7.9
IC111 ①	2.3	2.2	2.0	2.2
②	0.3	0.3	0	0.3
③	0.2	0.1	0.1	0.1
④	0	5.0	0	5.0
⑤	5.0	5.0	0	5.0
IC402 ①	3.1	2.9	3.0	3.6
②	0	2.3	2.2	2.2
③	2.9	2.9	2.9	2.9
IC403 ①	0.8	0.8	0.8	0
②	1.2	0.8	1.2	0.9
③	1.4	0.9	1.3	0
④	0.8	0.9	0.8	1.4
⑤	0.6	0.6	0	0.6
⑥	0.5	0.6	0.6	0
⑦	1.0	1.0	0.8	1.1
⑧	1.6	1.1	1.4	1.6
⑨	1.4	1.0	1.2	1.5
⑩	0.9	1.0	0.8	1.1
⑪	0.6	0.6	0	0.6

	PAL	NTSC 3.58	S-VIDEO	ANALOG RGB
IC404 ①	3.0	3.0	4.5	0
②	4.9	4.9	4.7	6.1
③	5.6	5.6	5.6	5.8
④	5.6	5.6	5.6	5.8
⑤	0	0	0	4.4
⑥	3.8	4.1	4.0	3.6
⑦	7.1	8.0	7.7	7.9
⑧	1.4	1.2	1.2	1.4
⑨	7.0	8.1	7.8	7.8
⑩	1.4	1.2	1.2	1.5
⑪	7.8	7.7	8.0	7.7
⑫	6.9	7.8	7.6	7.6
⑬	1.2	1.0	1.2	1.3
⑭	7.2	7.2	8.3	7.2
⑮	7.2	7.2	6.9	7.0
⑯	6.6	6.6	5.5	0
IC405 ①	1.6	1.1	1.4	1.6
②	1.4	0.9	1.2	1.5
③	1.2	0.9	1.1	1.2
④	1.4	1.0	1.2	1.4
⑤	1.3	1.0	1.2	1.4
⑥	0.5	0.6	0.3	0.2
⑦	0.5	0.6	0.3	0.2
⑧	1.2	0.8	1.2	1.3
⑨	1.4	1.0	1.2	1.5
IC406 ①	4.8	4.8	4.8	5.1
②	0.8	0.9	0.8	1.0
③	1.0	1.0	0.8	1.1
④	1.0	1.1	0.8	1.1
⑤	5.1	4.9	4.9	5.1
IC407 ①	1.2	0.9	1.2	1.3
②	0.4	0.5	0.4	0.5
③	1.4	1.0	1.2	1.4
④	0.6	0.7	0.5	0.7
⑤	2.0	2.0	2.0	2.0
⑥	11.7	11.6	11.7	11.2
⑦	5.5	5.5	5.4	8.5
⑧	5.5	5.5	5.4	8.4
⑨	1.4	1.0	1.2	1.5
⑩	0.6	0.7	0.5	0.8
⑪	2.0	2.0	2.0	2.0
⑫	2.0	2.0	2.0	2.0
IC408 ①	3.1	2.9	3.7	3.4
②	4.1	3.9	4.2	4.1
IC409 ①	0	9.0	0	7.5
②	0	0.4	0.3	1.6
③	5.9	6.3	5.9	5.9
④	5.9	6.3	5.9	5.9
⑤	5.9	6.3	5.9	5.9
⑥	0.1	0.5	0.1	0
⑦	0	6.6	0	10.7
IC410 ①	3.8	4.0	0	3.9
②	3.0	2.4	0	4.0
③	1.3	1.4	2.3	1.5
④	3.5	3.0	3.9	3.9
⑤	0.6	1.1	3.1	1.7
⑥	4.0	4.0	0	0
⑦	0	1.9	2.5	1.4
⑧	2.0	2.3	1.8	3.0
IC411 ①	4.1	3.9	4.2	4.1
②	1.8	1.9	2.5	1.3
③	2.0	2.3	1.8	3.0
IC412 ①	0.4	0.4	5.9	0.6
②	8.9	8.9	8.9	8.3
③	9.0	9.0	8.9	8.3
④	6.0	6.0	6.0	0
⑤	0.4	0.4	5.9	0.5
IC413 ①	7.9	8.0	0	6.9
②	0	5.5	5.4	0
③	5.5	5.5	5.4	8.6
④	3.1	3.1	0	5.1
⑤	3.1	3.1	6.0	5.1
⑥	7.9	8.0	6.3	6.9
Q102 B	10.9	10.9	10.7	10.9
C	8.1	8.1	0	8.1
E	11.5	11.5	11.3	11.5
Q104-1 B	-0.2	-0.2	0	-0.2
Q107 B	5.0	5.0	5.0	0.1
C	0	0	0	5.0
Q108 C	2.6	2.6	2.9	2.8
E	2.6	2.6	2.9	2.6
Q111 B	5.0	0	4.9	4.9
C	0.4	0	0.4	0.4
Q113 C	4.1	4.2	3.8	4.0

	PAL	NTSC 3.58	S-VIDEO	ANALOG RGB
Q401 B	1.1	1.5	1.2	1.0
C	7.5	6.0	8.4	10.0
E	1.4	3.2	3.1	1.0
Q402 B	0.5	0.5	2.4	0.5
C	9.5	8.1	10.4	6.9
E	1.4	3.2	3.2	1.0
Q404 B	5.3	4.9	5.3	5.2
E	6.1	6.0	6.1	6.2
Q405 B	1.3	1.2	1.2	1.4
Q406 B	0.7	0	0.7	0.7
C	1.6	1.0	1.4	1.6
Q407 B	0	0	0	0.6
C	6.6	6.6	5.4	0
Q408 B	5.3	4.9	5.2	5.2
E	6.0	5.9	6.0	6.1
Q409 B	1.9	1.6	1.7	1.6
E	2.0	2.2	2.3	2.2
Q411 C	1.4	0.9	1.3	1.4
Q412 B	1.3	1.0	1.1	1.4
E	2.0	1.7	1.8	2.0
Q413 G	2.0	1.6	1.8	-2.1
D	2.0	-4.3	2.2	2.0
S	2.0	1.7	1.8	2.0
Q417 B	1.4	1.2	1.2	1.4
Q418 C	2.1	1.7	1.7	2.0
Q419 B	1.4	1.2	1.2	1.5
E	2.0	1.7	1.8	2.0
Q420 B	1.2	1.0	1.2	1.3
E	1.8	1.6	1.8	1.9
Q422 C	2.1	1.7	1.8	2.0
Q423 B	0.5	0.4	0.4	0.2
Q425 C	4.5	4.5	4.7	4.5
Q426 C	0.8	0.7	0.7	0
Q429 B	0.1	0.4	0.1	0.1
E	0	-1.2	0.4	0.4
Q432 B	-0.9	-3.4	-0.1	-3.9
C	11.9	11.8	12.0	11.6
Q433 B	0	0	0	2.7
C	3.0	3.0	4.5	0
Q434 B	-0.1	0	-0.1	0.4
C	3.6	4.5	2.9	0
Q438 B	-0.4	-3.1	0	-2.4
C	11.7	11.7	11.6	11.7
Q439 B	2.0	1.8	1.8	2.0
E	2.6	2.4	0	2.6
Q440 B	2.6	2.5	2.4	2.7
Q441 G	-1.1	1.7	0	-0.7
D	2.0	-8.1	1.8	2.0
S	2.0	1.6	1.8	2.0
Q442 B	1.3	1.1	1.1	2.1
E	0.9	0.7	0.7	1.5
Q444 C	1.2	1.2	2.2	1.3
Q445 C	0.4	1.4	0.3	0.4

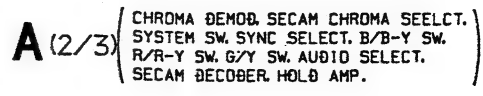
Q110	MUTE BUFFER	Q430	IK BLK	D404	SW
Q111	HV DC SW	Q431	RESET MUTE SW	D405	BLANKING
Q112	MUTE BUFFER	Q432	BRIGHT MUTE SW	D406	SW SLICE
Q113	DGC SW	Q433	RGB SW	D407	RGB SW
Q114	V SYNC AMP	Q434	MUTE RGB SW	D408	BLANKING
Q115	MIS ACTION PROTECT	Q435	OSD DOWN SW	D410	SW
Q401	BRIGHT ABL	Q436	OSD DOWN SW	D411	SW
Q402	PIY ABL	Q437	OSD DOWN SW	D414	OSD MODE SW
Q403	V-BLK-SW	Q438	BLUE ONLY SW	D415	OSD BLK-INSERT
Q404	B/O G AMP 9	Q439	BCH B/O DLY-EQ 1	D416	OSD B MIX
Q405	B-BUFF 3	Q440	BCH B/O DLY-EQ 2	D417	OSD G MIX
Q406	B/O G AMP 2	Q441	BCH B/O SW	D418	OSD R MIX
Q407	B/W-SW3	Q442	BCH BUFFER	D421	SW
Q408	B/O R AMP 1	Q443	AUTO CMROMA SET UP AMP 1	D422	SW
Q409	B-Y-BUFF	Q444	AUTO CMROMA SET UP AMP 2	D423	CLAMP
Q410	Y BUFFER	Q445	BLUE ONLY SW	D424	PROTECT
Q411	B/O R AMP 2			D425	CLAMP
Q412	BCH BUFFER			D426	D. C. SHIFT
Q413	BCH NORMAL SW			D427	PROTECT
Q414	R BUFFER	D100			
Q415	G BUFFER	D101	PROTECT		
Q416	B BUFFER	D102	PROTECT		
Q417	B-BUFF	D103	OSP POSITION ADJ		
Q418	OFF-MUTE-SW	D104	PROTECT		
Q419	G-BUFF 3	D105	PROTECT		
Q420	R-BUFF 3	D106			
Q421	V-BLK-SW 1	D107	PROTECT		
Q422	BLANKING	D108			
Q423	BLUE BUFFER	D109	MUTE		
Q424	BLK	D111	PROTECT		
Q425	V-P BUFFER 1	D113	D. C. SHIFT		
Q426	V-P BUFFER 2	D114	SW		
Q428	SHARPNESS BUFFER	D115	PROTECT		
Q429	IK BUFFER	D335	SW		
		D401	SW 15		

Schematic diagram

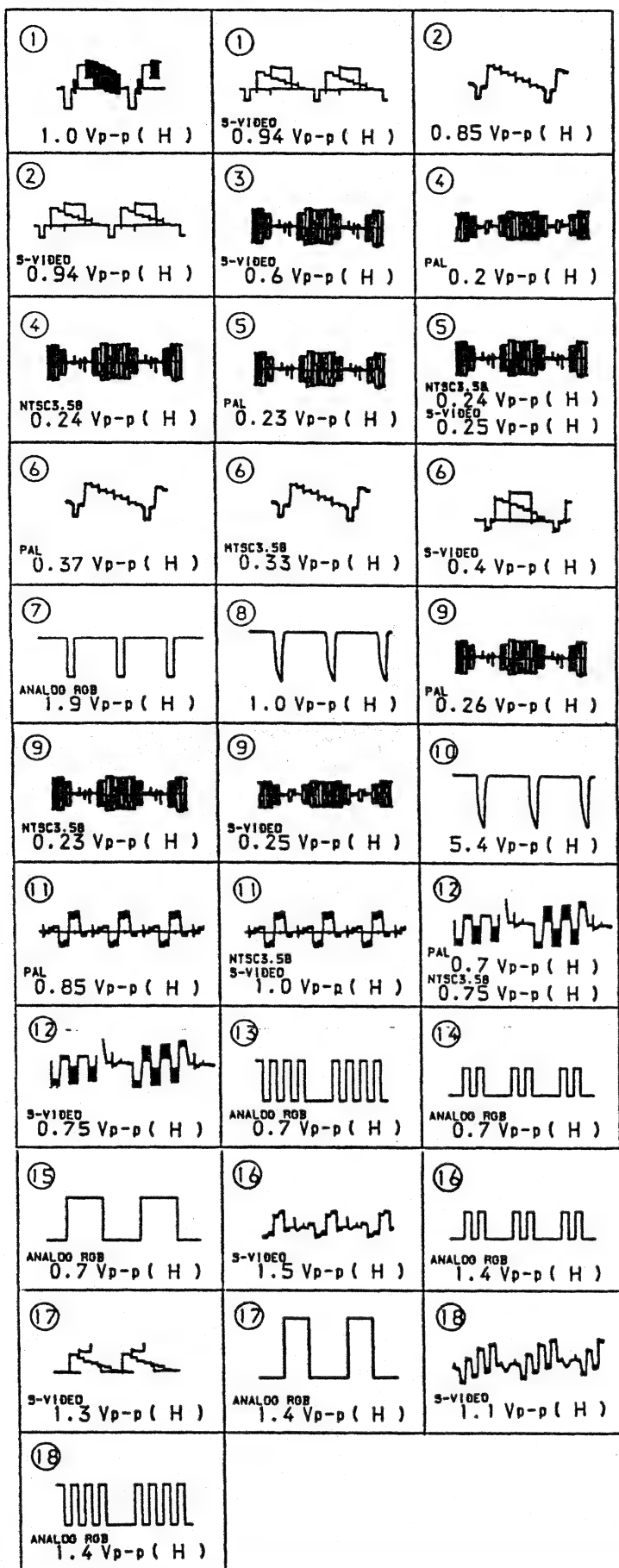
← A (1/3) board

Schematic diagram

A (2/3) board →



A (2/3) BOARD WAVEFORMS



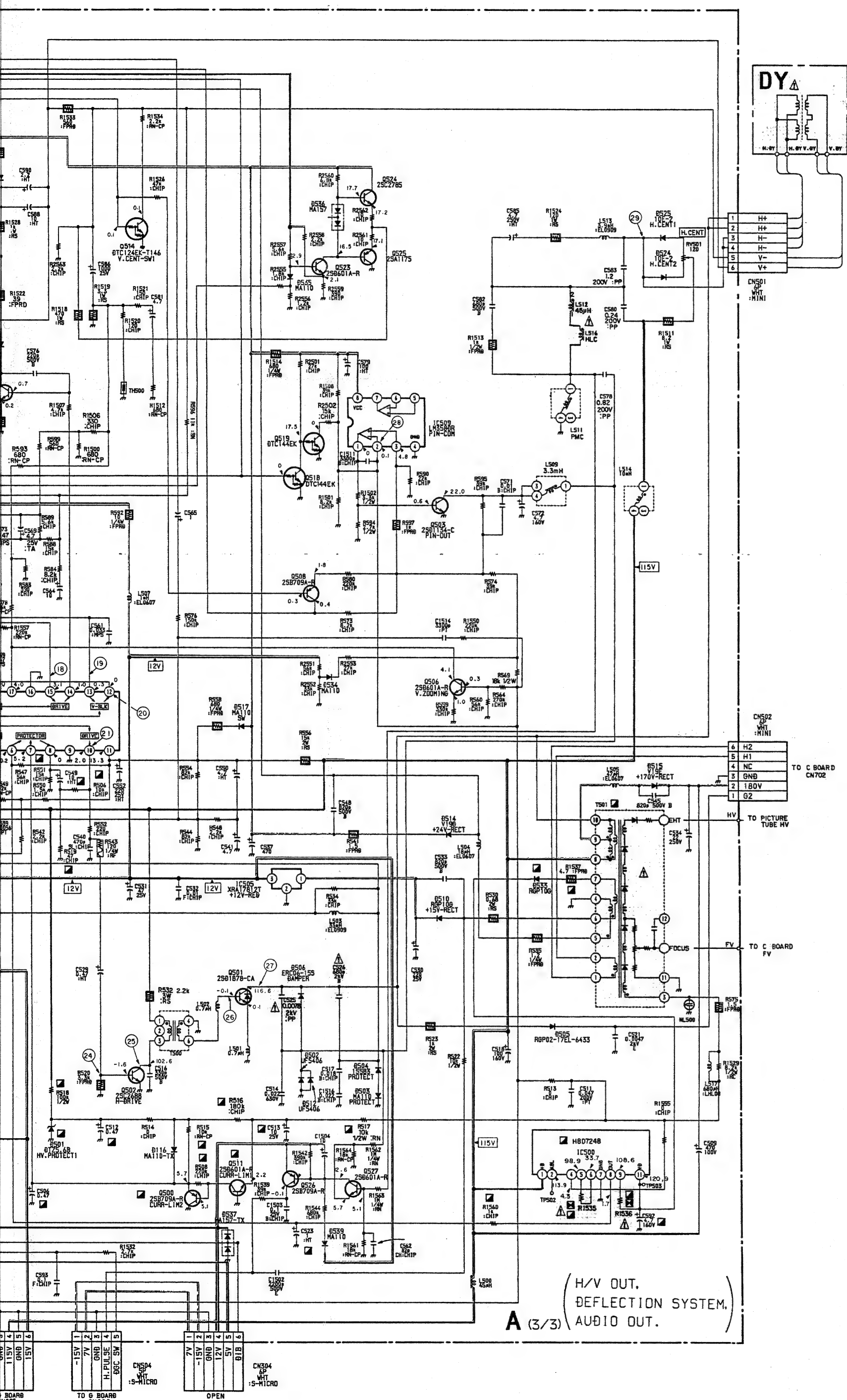
A (2/3) BOARD * MARK

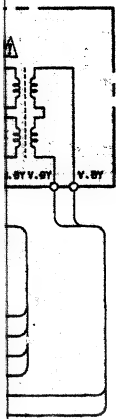
	PAL	NTSC	S-VIDEO	ANALOG
IC301 ①	2.8	3.58	3.0	2.3
②	2.0	1.8	1.7	3.5
IC302 ①	2.9	2.9	2.9	2.9
②	5.3	4.5	4.5	4.5
③	10.5	0	0	0
IC303 ①	2.2	2.0	2.0	2.0
②	0.6	0.5	0.5	0.5
③	1.0	0.4	0.5	0.2
④	0.2	0.2	0.3	0.3
IC304 ①	2.2	2.2	2.2	2.2
②	9.4	9.4	9.4	9.4
③	7.3	2.5	2.6	2.5
④	7.3	2.5	2.6	2.5
⑤	1.9	2.2	2.2	2.2
⑥	2.5	2.2	2.3	2.2
IC305 ①	2.8	2.8	2.8	2.8
②	2.5	2.5	2.4	1.3
③	4.1	4.1	4.2	4.5
④	0.4	0	0	0.1
⑤	2.6	2.5	2.5	2.7
⑥	0	0.8	0.9	0.9
⑦	2.1	1.9	1.9	2.7
IC306 ①	8.1	8.1	8.1	0
②	0	0	0.1	4.4
IC307 ①	4.2	5.5	5.5	5.5
②	4.4	5.7	5.7	5.7
③	4.2	5.5	5.5	5.5
④	4.2	5.5	5.5	5.5
⑤	4.2	5.5	5.5	5.5
⑥	4.2	5.5	5.5	5.5
IC309 ①	3.6	3.6	3.6	3.6
②	0	0	0	4.4
IC310 ①	6.2	6.2	6.2	5.9
②	6.3	6.2	6.2	5.9
③	5.9	6.0	5.9	5.9
IC311 ①	0	6.2	6.2	6.2
②	6.2	6.2	6.2	5.9
③	6.2	5.3	6.2	5.9
④	3.3	2.9	2.9	0
⑤	5.9	5.9	5.8	5.9
⑥	0.4	0.4	0.5	0.7
IC312 ①	3.6	3.6	3.6	3.6
②	0	0	0.1	4.5
IC313 ①	0	0	6.3	6.3
IC314 ①	0	7.6	3.0	0
②	0	0	2.9	0.1
IC315 ①	0.4	0.4	0.4	0.6
②	0.6	0.6	0.6	0.6
③	9.4	9.3	9.3	9.4
④	2.5	2.5	2.5	7.2
⑤	0.4	0.4	0.4	0.6
⑥	0.4	0.4	0.4	0.6
IC317 ①	2.0	2.0	2.0	12.0
②	12.0	12.0	12.0	12.0
③	10.7	10.6	10.5	10.7
④	9.4	9.4	9.1	9.4
IC318 ①	11.5	0	11.4	11.4
IC319 ①	1.0	0.4	0.5	0.2
②	0.6	0.5	0.4	0.5
IC320 ①	6.3	6.3	6.3	0
②	3.0	0	0	0
③	0	0	3.3	0
IC321 ①	0	0.1	2.9	0
②	0	0	0.1	2.7
IC322 ①	5.8	6.0	5.9	5.9
IC323 ①	6.2	6.2	6.2	5.9
②	0	5.6	5.6	5.6
IC324 ①	6.2	6.2	6.2	5.9
IC326 ①	5.9	6.0	5.9	5.9
②	5.9	5.9	5.8	5.9
③	5.9	5.9	5.8	5.9
④	1.7	1.6	2.1	2.1
⑤	2.4	2.3	2.3	4.6
⑥	0	10.8	-0.1	0
⑦	6.3	6.3	6.2	5.9
⑧	6.3	6.3	6.2	5.9
⑨	6.3	6.2	6.2	5.9
⑩	6.2	6.2	6.2	5.9
⑪	6.2	6.2	6.2	5.9
⑫	6.2	6.2	6.2	5.9
IC327 ①	0	0	0	2.9
IC350 ①	6.6	6.4	6.1	6.9
②	6.2	6.2	6.0	6.4
③	6.2	6.2	6.0	6.4

	PAL	NTSC	S-VIDEO	ANALOG
Q300 B	2.5	2.2	2.2	2.2
C	10.2	10.4	10.4	10.5
E	1.9	1.6	1.6	1.6
Q301 E	8.6	8.2	8.5	9.8
Q303 E	5.7	5.7	5.5	5.7
Q304 B	6.3	6.3	6.2	6.3
E	5.7	5.7	5.5	5.7
Q305 B	8.6	8.2	8.5	9.8
E	7.9	7.6	7.9	9.1
Q307 E	1.4	1.1	1.4	2.7
Q309 B	1.4	1.1	1.4	2.6
C	0.1	0.2	0.1	0
E	0.7	1.7	0	1.8
Q312 C	8.2	8.6	8.3	8.1
Q313 B	8.2	8.6	8.2	8.1
E	8.8	9.3	8.9	8.7
Q314 B	11.9	11.9	11.9	11.9
C	0	0	0	0
Q315 B	3.3	2.9	3.2	3.3
E	3.9	3.5	3.8	4.0
Q318 B	12.1	11.7	12.1	12.1
C	1.0	1.2	1.0	0.9
Q322 B	2.4	2.3	5.6	2.4
E	1.8	1.8	5.0	1.8
Q323 B	5.0	0	0	0
C	0	3.5	3.5	3.6
Q324 B	4.1	0	0	0
C	0	0.8	0.8	0.9
Q328 G	2.8	2.8	0	0
Q329 G	0	1.6	2.9	2.8
Q332 B	4.9	0	0	0
C	0	4.4	4.3	4.4
Q333 B	1.7	1.9	1.7	1.7
E	1.5	1.7	1.5	1.4
Q339 B	12.3	12.5	12.5	12.3
Q354 B	12.0	0	0	0
E	12.0	0	0	-0.2
Q358 E	2.2	0	2.2	2.2
Q360 1	6.2	6.2	6.1	6.4
3	6.2	6.2	6	6.4
5	1.3	2.2	5.3	3.8
Q361 B	4.9	5.0	5.0	0.8
C	0.1	0	0.1	2.9
Q362 C	9.0	9.0	9.2	8.5
Q364 C	3.3	2.9	2.8	2.9
Q365 B	0.4	0.3	0.4	0.4
Q369 B	0.8	0.8	0.9	4.9
Q372 B	0	0	0	4.9
C	11.7	11.8	11.7	0

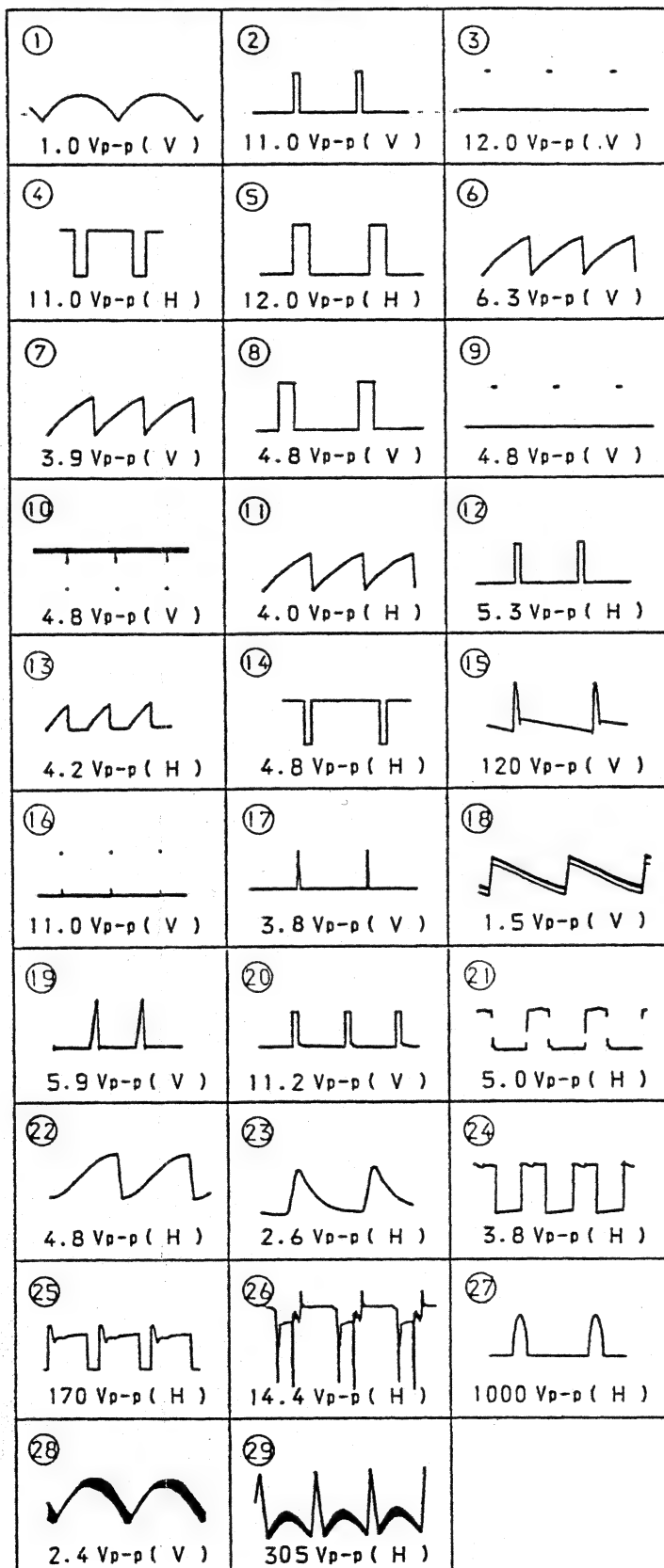
A (2/3) BOARD

IC301	ACC OFF. GAIN-CONT. AMP	Q307	SYNC-CHIP-CLAMP 2	Q353	B/B-Y-BUFF-2	D306	SW
IC302	PAL-60-ID2	Q308	CLAMP-REF	Q354	B/W-SW2	D307	B/W-SW
IC303	O/S H BLANKSPLIT POSITION	Q309	CLAMP-BUFF-2	Q355	258 TRIP SW	D308	SW
IC304	SYSTEM-SW	Q310	PAL TRAP BUFFER 2	Q356	MUTE SW	D309	B/W-SW
IC305	CHROMA-DEMOD	Q311	SLICER 2	Q357	ACC OFF AMP	D310	CLAMP
IC306	G/Y-SW	Q312	AMP-1	Q358	ACC OFF SW	D311	XTAL ADJ
IC307	AFC SW	Q313	AMP-2	Q359	ACC ON SW	D313	SW
IC309	R/R-Y/SW	Q314	SECAA SW	Q360	HOLD	D314	SLICER
IC310	BLACK-INSERT	Q315	BUFF	Q361	EXT-SYNC SW	D315	7.5 OPSW
IC311	SAMPLE	Q316	NT-COMB-D.C.-REF	Q362	OSD SW	D317	LEVEL-SHIFT
IC312	B/B-Y-SW	Q318	SYNC-SEF	Q363	TEST BUFFER	D320	SLICE
IC313	SYNC SELECT	Q319	Y-SW-BUFF	Q364	V-PULSE SW	D322	SLICE
IC314	Y-SW	Q320	BUFFER	Q366	BRIGHT UP SW 1	D323	SW
IC315	PULSE SELECT	Q321	B/W-SW 2	Q367	BRIGHT UP SW 2	D324	R-Y COLOR BALANCE ADJ
IC316	SECAM CHROMA SELECT	Q323	PAL SW	Q368	BRIGHT UP SW 3	D325	PULSE SW
IC317	H-PULSE-GATE	Q324	PAL SW	Q369	RGB SW	D326	LIMITTER
IC318	NOT-GATE	Q325	SYNC-SIG-BUFF	Q372	RGB SW	D327	SW
IC319	SW	Q326	Y-AMP-1	Q376	DIGITAL MODE SW 2	D332	RGB COMP SW
IC320	CHROMA BPF SELECT	Q327	Y-AMP-2	Q377	DIGITAL MODE SW 1	D333	H BLK SW
IC321	Y-D.L.-SW	Q328	443 SW	Q378	MUTE SW	D337	SECAM-SW
IC322	G/Y SW SELECT	Q329	358 SW	Q380	SPLIT SW	D338	SW
IC323	B/B-Y SW SELECT	Q330	R-Y-BUFF 1	Q381	SPLIT SW	D339	LIMITTER
IC324	R/R-Y SW SELECT	Q331	B-Y-BUFF 1	Q382	OVER SCAN SW	D341	D. C. SHIFT
IC325	AUDIO SELECT	Q332	358 SW	Q383	OVER SCAN SW	D344	SW
IC326	HOLD AMP	Q333	SYNC-BUFF	Q384	OVER SCAN SW	D345	OSD G CLAMP
IC327	SYNC SW	Q335	HV-DL SW	Q385	SPLIT SW	D346	OSD B CLAMP
IC350	BUFFER AMP	Q338	V-SYNC SSP 1	Q386	SPLIT SYNC SW	D347	OSD R CLAMP
		Q339	V-SYNC SSP 2			D360	SW
		Q341	G/Y BUFFER			D361	SW
Q300	PHASE SHIFT	Q342	R/R-Y BUFFER	D300	PHASE ADJ	D362	D. C. SHIFT
Q301	SYNC-SHIP CLAMP 1	Q343	B/B-Y BUFFER	D301	SW	D363	D. C. SHIFT
Q302	BUFFER	Q345	MUTE SW	D302	D. C. SHIFT	D364	SW
Q303	VIDEO-IN-BUFF-1	Q350	INSERT-PULSE SW	D303	SECAM SW	D365	SECAM SW
Q305	CLAMP-BUFF-1	Q351	G/Y-BUFF-2	D304	SW	D381	SW
Q306	PAL TRAP BUFFER 1	Q352	R/R-Y-BUFF-2	D305	PROTECT		



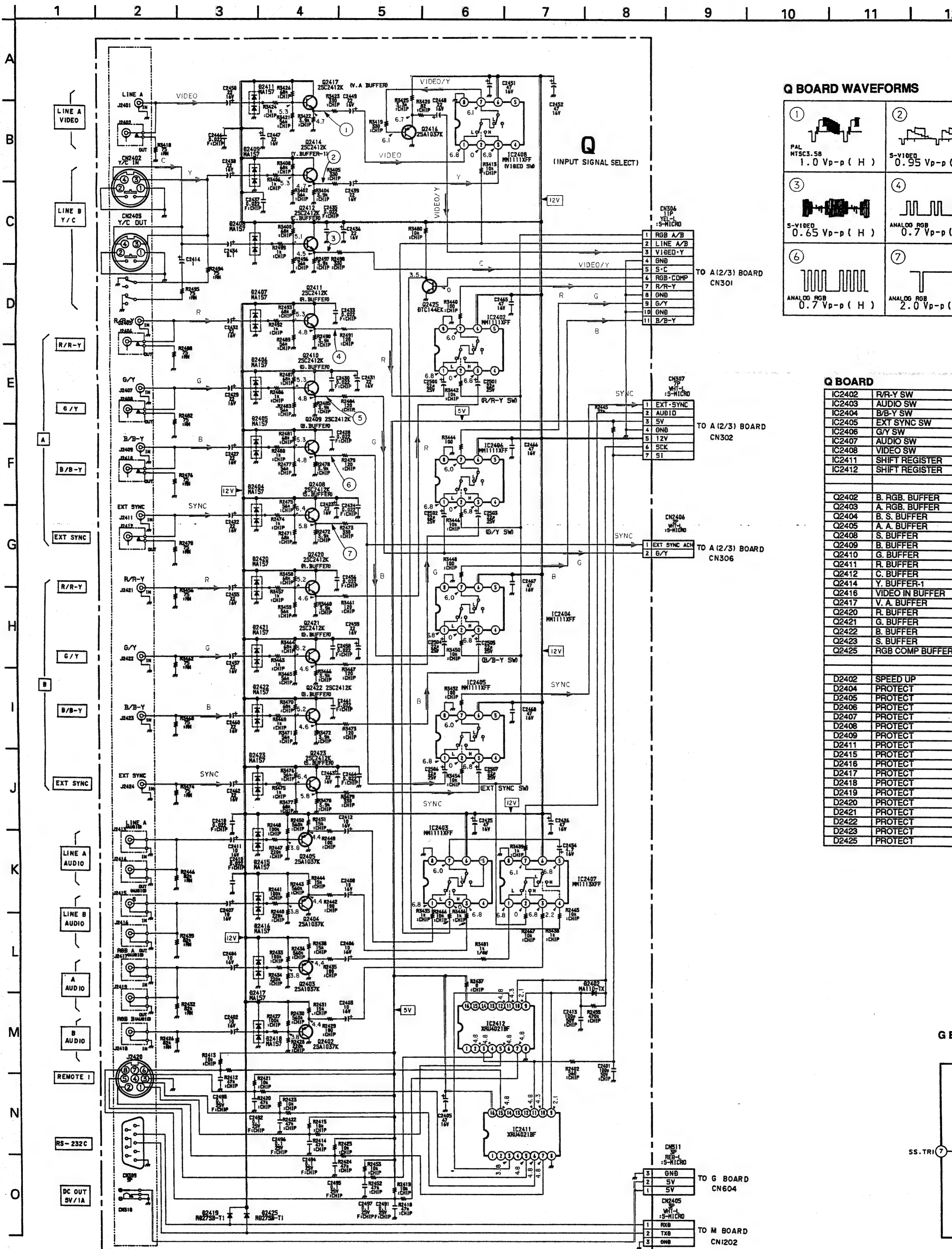


A (3/3) BOARD WAVEFORMS

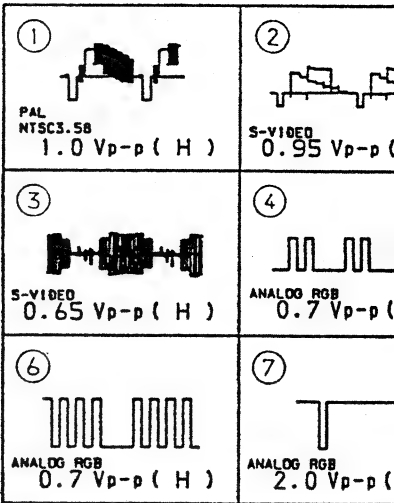


A (3/3) BOARD

IC200	AUDIO OUT
IC500	X-RAY PROTECT
IC502	V DELAY MONO-MULTI
IC503	H DELAY MONO-MULTI
IC504	V GAIN-CONT AMP 2
IC505	+12V REG
IC506	H BLK MONO-MULTI
IC507	DEFLECTION
IC508	V GAIN-CONT AMP 1
IC509	PIN COMPLETION
IC510	16:9 V BLK MONO-MULTI
Q200	+12 REG
Q201	MUTE SW
Q500	CURR LIM 2
Q501	H OUT
Q502	H DRIVE
Q503	PIN OUT
Q505	H BLK 1
Q506	V ZOOMING
Q507	H BLK BUFFER
Q508	50/60 SWITCH
Q509	DIGITAL V SWITCH
Q510	16:9 SWITCH
Q511	CURR LIM 1
Q512	V DRIVE
Q513	V OUT 1
Q514	50/60 SWITCH
Q515	V OUT 2
Q517	H-V PHASE LOCK SW
Q518	U/S SWITCH 1
Q519	U/S SWITCH 2
Q520	+12V REG
Q522	H PULSE BUFFER
Q523	V CENT CONT
Q524	V CENT OUT 2
Q525	V CENT OUT 1
Q526	FBT +12V FAILURE SW
Q527	FAILURE
D116	CURR LIMITER
D200	AUDIO DC SHIFT
D500	SPEED UP
D501	HV PROTECT
D502	PIN DAMPER
D503	PROTECT
D504	PROTECT
D505	G2 RECT
D506	DAMPER
D507	HV DELAY SWITCH
D508	HV DELAY SWITCH
D509	SWITCH
D510	+15V RECT
D512	PIN DAMPER 2
D513	H BLK
D514	+24V RECT
D515	+170V RECT
D516	H BLK
D517	SWITCH
D518	PROTECT
D519	V SYNC
D520	MICOM SWITCH
D521	MUTE SWITCH
D522	DC UP
D523	BIAS
D524	H CENT
D525	H CENT
D526	50/60 SWITCH
D527	DC LIMITER
D528	PUMP-UP 2
D529	SWITCH
D530	PUMP-UP
D531	+12V REF 1
D532	+12V REF 2
D533	HV PROTECT RECT
D534	SWITCH
D535	BIAS
D536	BIAS
D537	PROTECT
D538	PROTECT
D539	SWITCH
D540	V BLK SWITCH 1
D541	V BLK SWITCH 2
D542	16:9 SWITCH

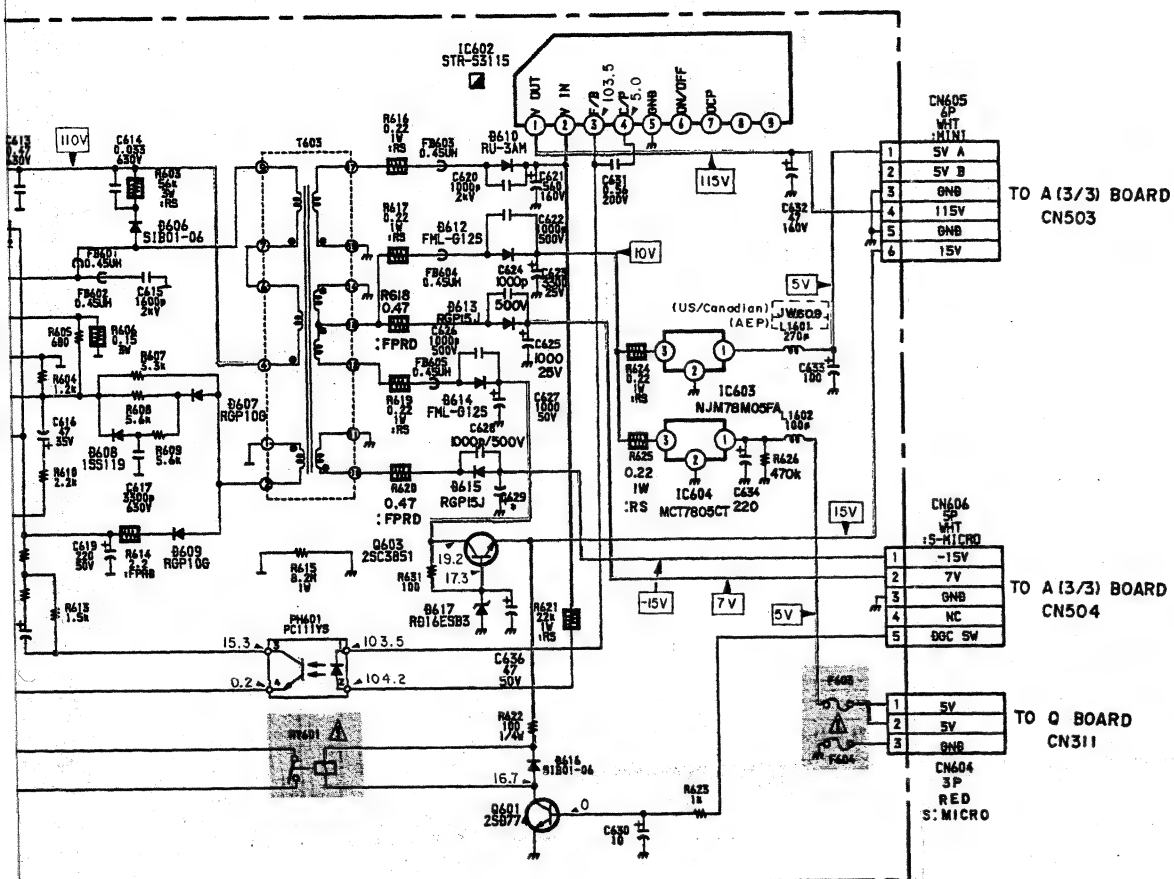


Q BOARD WAVEFORMS



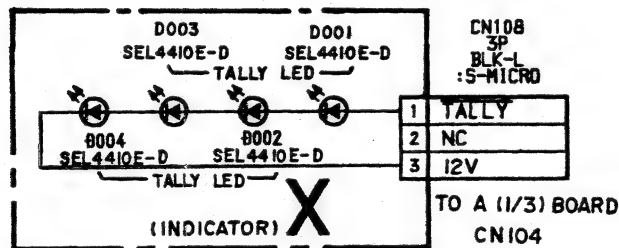
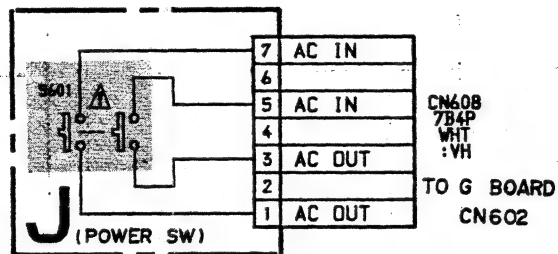
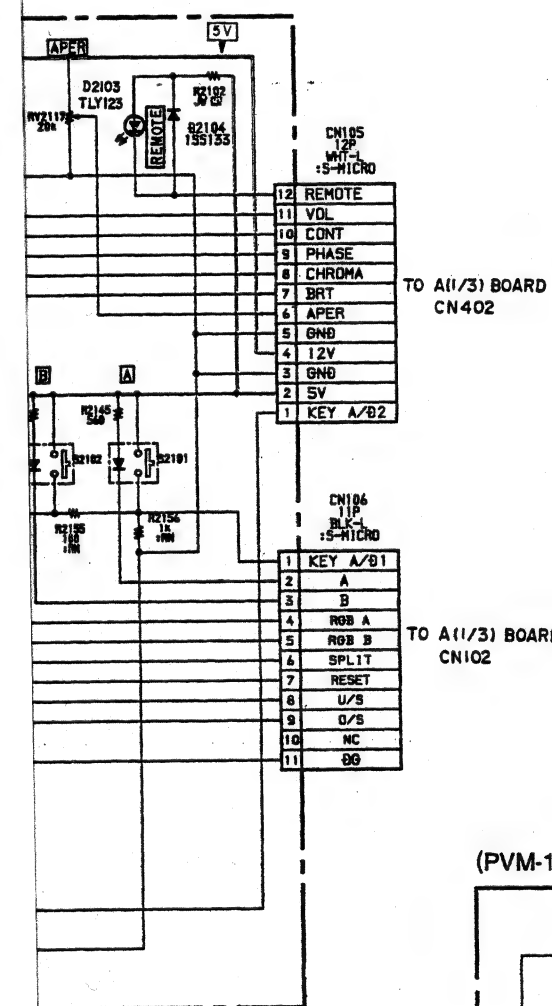
Q BOARD

IC2402	R/R-Y SW
IC2403	AUDIO SW
IC2404	B/B-Y SW
IC2405	EXT SYNC SW
IC2406	G/Y SW
IC2407	AUDIO SW
IC2408	VIDEO SW
IC2411	SHIFT REGISTER
IC2412	SHIFT REGISTER
Q2402	B. RGB. BUFFER
Q2403	A. RGB. BUFFER
Q2404	B. S. BUFFER
Q2405	A. A. BUFFER
Q2408	S. BUFFER
Q2409	B. BUFFER
Q2410	G. BUFFER
Q2411	R. BUFFER
Q2412	C. BUFFER
Q2413	Y. BUFFER-1
Q2416	VIDEO IN BUFFER
Q2417	V. A. BUFFER
Q2420	R. BUFFER
Q2421	G. BUFFER
Q2422	B. BUFFER
Q2423	S. BUFFER
Q2425	RGB COMP BUFFER
D2402	SPEED UP
D2404	PROTECT
D2405	PROTECT
D2406	PROTECT
D2407	PROTECT
D2408	PROTECT
D2409	PROTECT
D2411	PROTECT
D2415	PROTECT
D2416	PROTECT
D2417	PROTECT
D2418	PROTECT
D2419	PROTECT
D2420	PROTECT
D2421	PROTECT
D2422	PROTECT
D2423	PROTECT
D2425	PROTECT



G BOARD

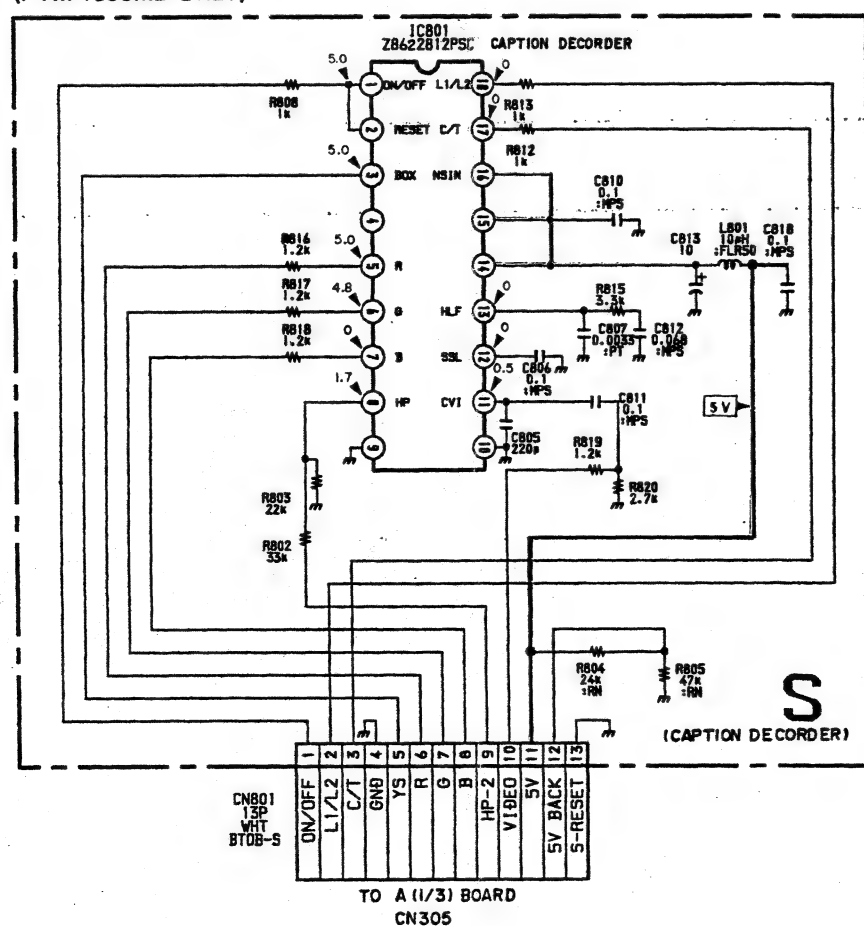
IC601	REF PWM
IC602	+B CONTROL
IC603	+5V A REG
IC604	+5V B REG
Q601	RELAY DRIVE
Q603	+15V REG
D601	MAIN RECT
D602	MAIN RECT
D603	MAIN RECT
D604	MAIN RECT
D605	OVP
D606	PROTECT
D607	SWITCH
D608	SWITCH
D609	SWITCH
D610	+B RECT
D612	+12V RECT
D613	+7V RECT
D614	+15V RECT
D615	-15V RECT
D616	PROTECT
D617	REF VOLTEGE



X BOARD

D001	TALLY LED 1
D002	TALLY LED 2
D003	TALLY LED 3
D004	TALLY LED 4

(PVM-1353MD ONLY)



S BOARD

IC801	CAPTION DECODER
-------	-----------------

G

[POWER SUPPLY]

Q

[INPUT SIGNAL SELECT]

H

[CONTROL SWITCH]

S

[CAPTION DECORDER]

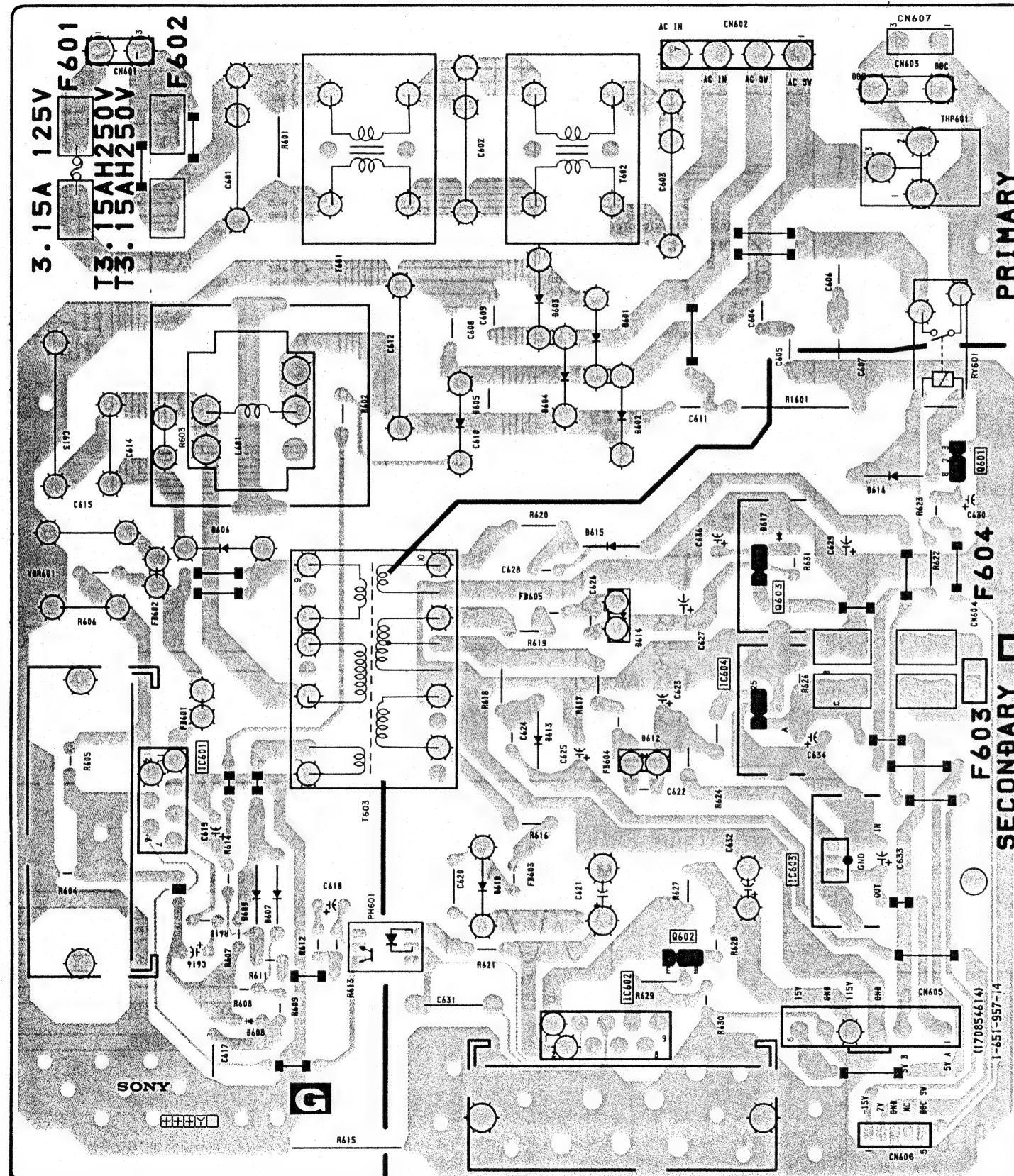
X

[INDICATOR]

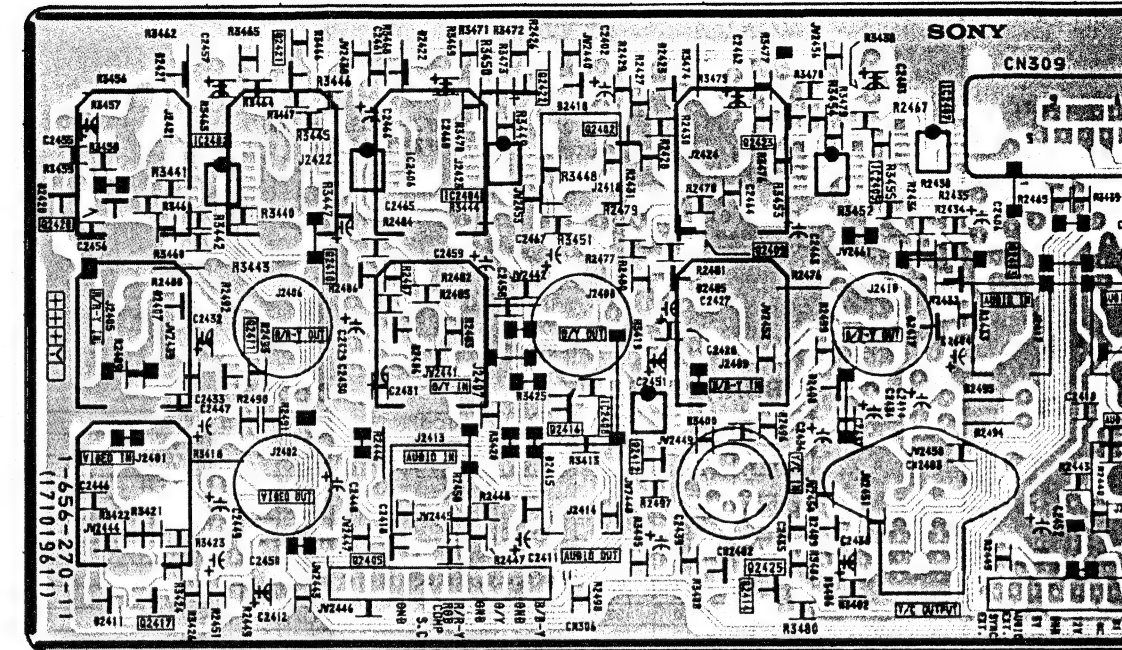
J

[POWER SWITCH]

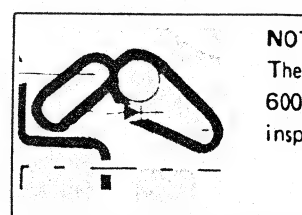
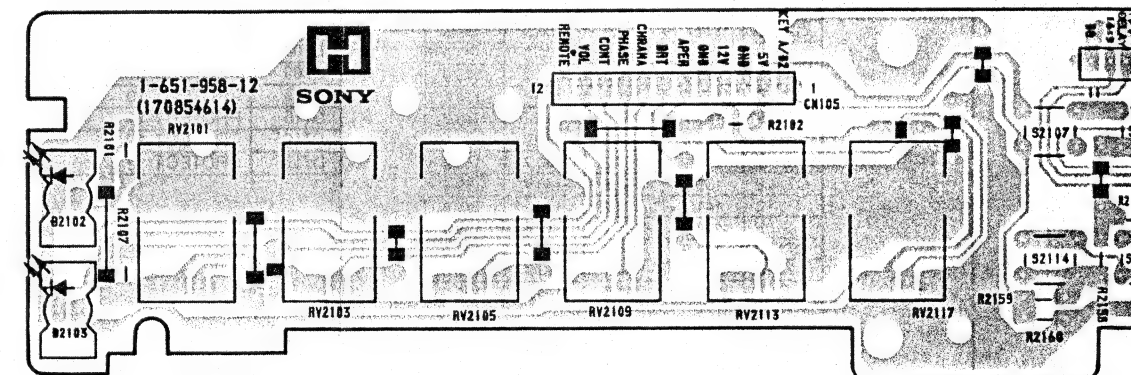
- G BOARD -



- Q BOARD -

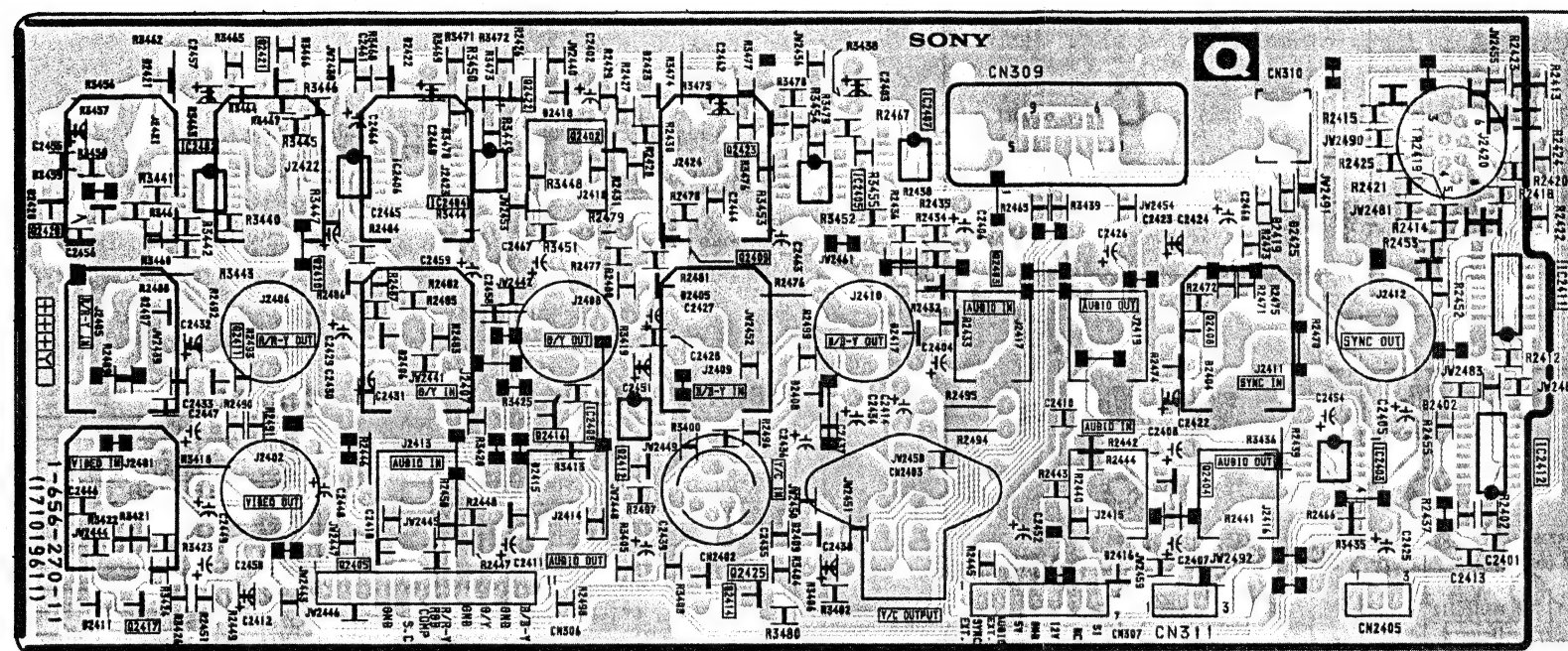


- H BOARD -

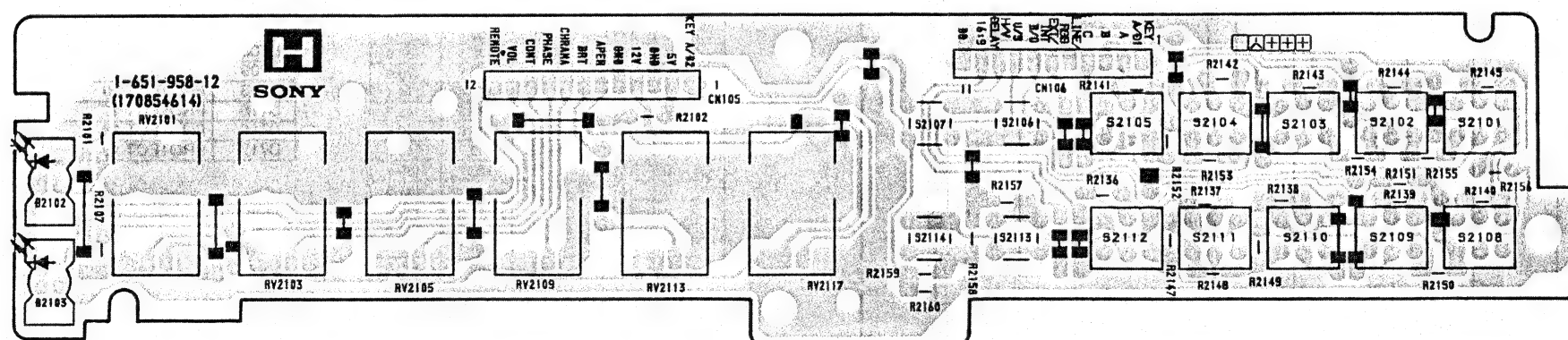


[DL SWITCH] **S** [CAPTION DECORDER] **X** [INDICATOR] **J** [POWER SWITCH]

- Q BOARD -

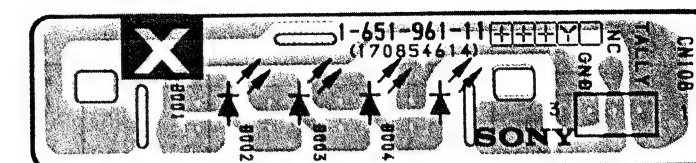


- H BOARD -



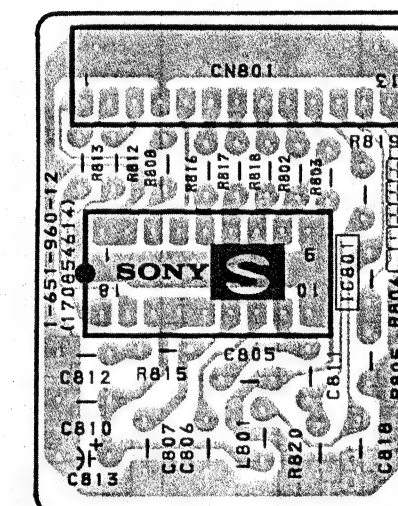
NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

- X BOARD -

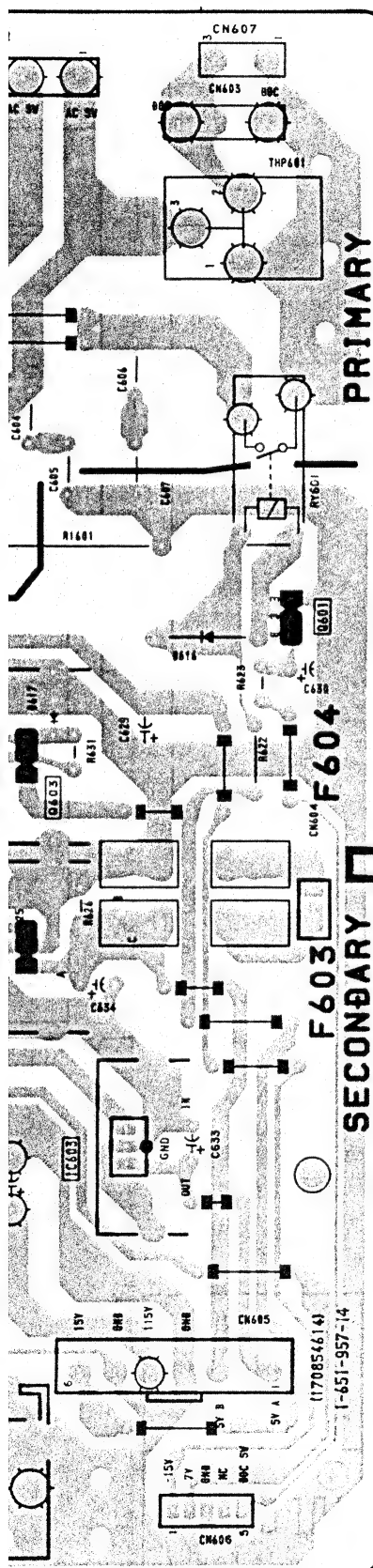
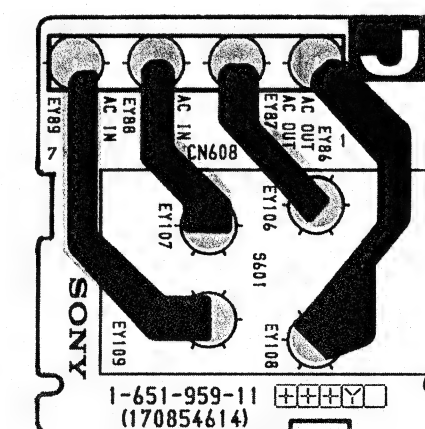


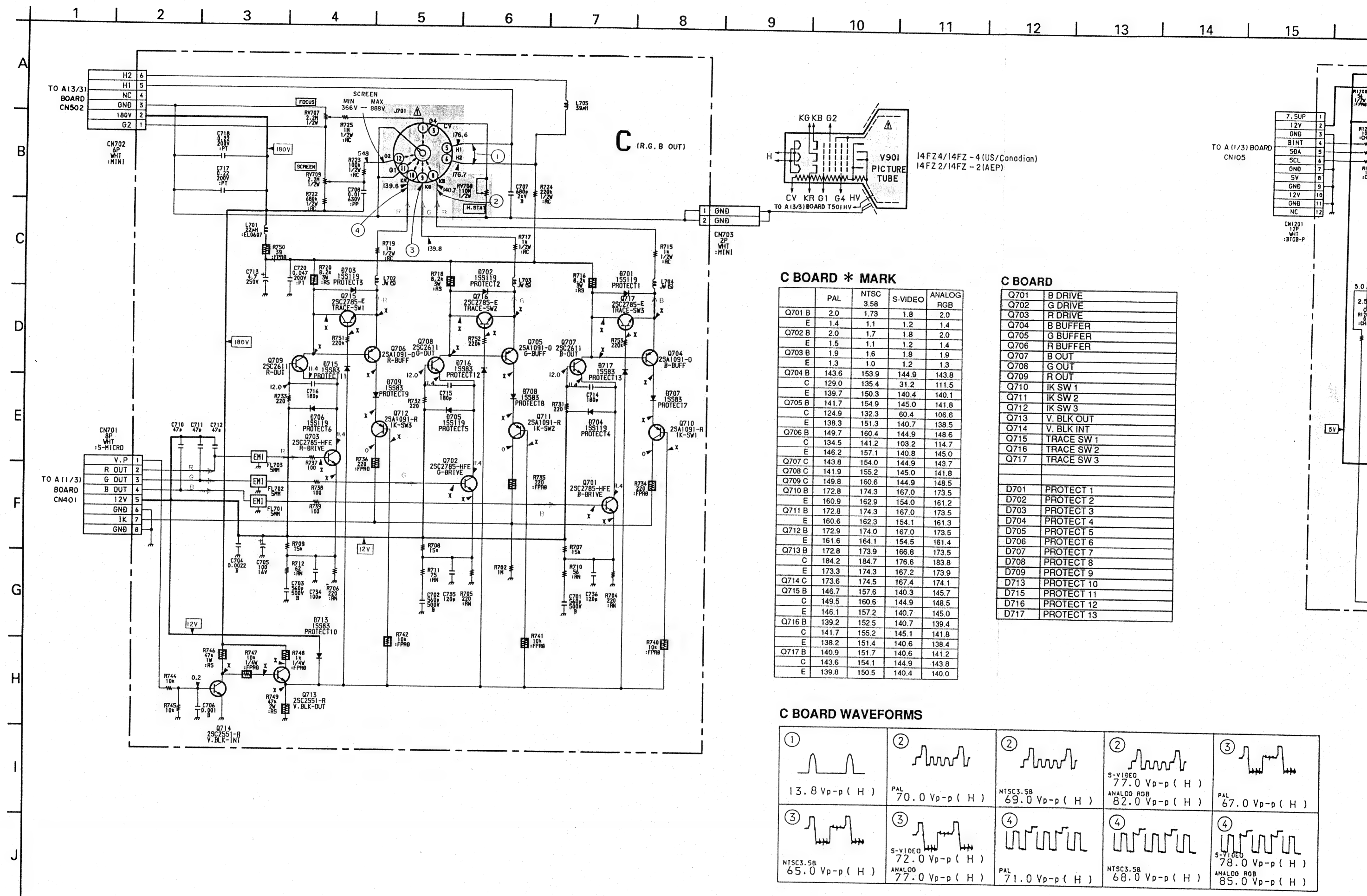
(PVM-1353MD ONLY)

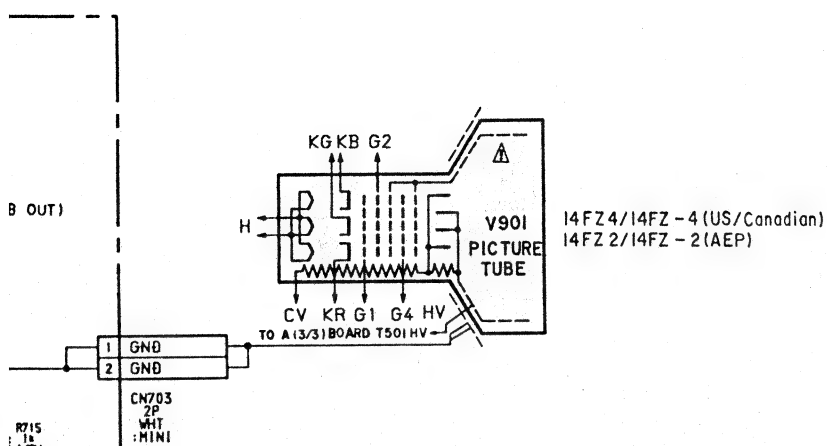
- S BOARD -



- J BOARD -







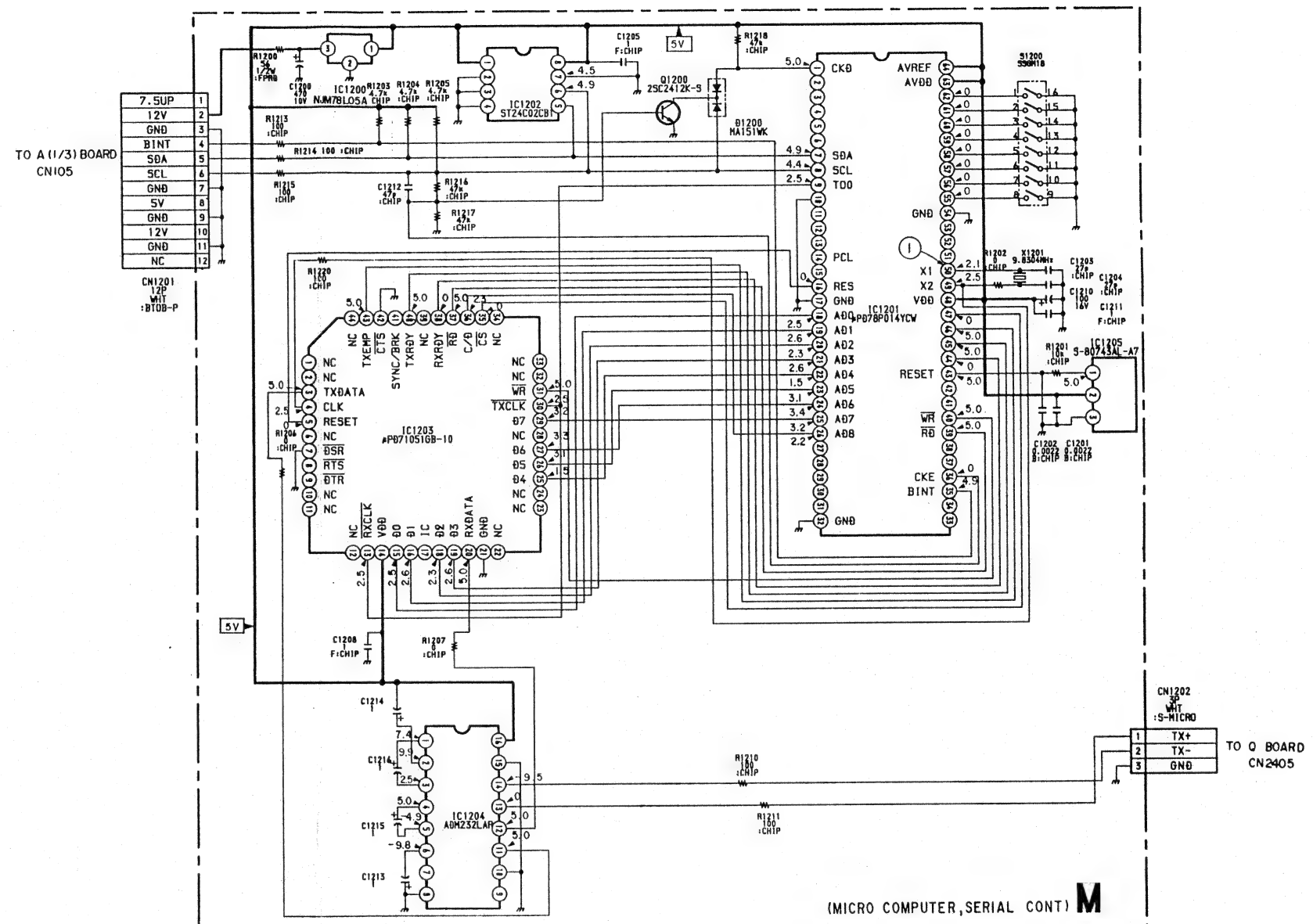
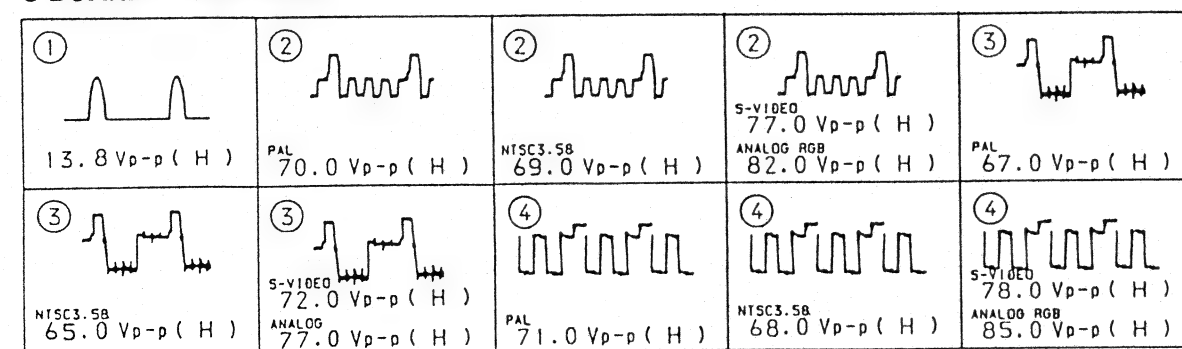
C BOARD * MARK

	PAL	NTSC 3.58	S-VIDEO	ANALOG RGB
Q701 B	2.0	1.73	1.8	2.0
E	1.4	1.1	1.2	1.4
Q702 B	2.0	1.7	1.8	2.0
E	1.5	1.1	1.2	1.4
Q703 B	1.9	1.6	1.8	1.9
E	1.3	1.0	1.2	1.3
Q704 B	143.6	153.9	144.9	143.8
C	129.0	135.4	31.2	111.5
E	139.7	150.3	140.4	140.1
Q705 B	141.7	154.9	145.0	141.8
C	124.9	132.3	60.4	106.6
E	138.3	151.3	140.7	138.5
Q706 B	149.7	160.4	144.9	148.6
C	134.5	141.2	103.2	114.7
E	146.2	157.1	140.8	145.0
Q707 C	143.8	154.0	144.9	143.7
Q708 C	141.9	155.2	145.0	141.8
Q709 C	149.8	160.6	144.9	148.5
Q710 B	172.8	174.3	167.0	173.5
E	160.9	162.9	154.0	161.2
Q711 B	172.8	174.3	167.0	173.5
E	160.6	162.3	154.1	161.3
Q712 B	172.9	174.0	167.0	173.5
E	161.6	164.1	154.5	161.4
Q713 B	172.8	173.9	166.8	173.5
C	184.2	184.7	176.6	183.8
E	173.3	174.3	167.2	173.9
Q714 C	173.6	174.5	167.4	174.1
Q715 B	146.7	157.6	140.3	145.7
C	149.5	160.6	144.9	148.5
E	146.1	157.2	140.7	145.0
Q716 B	139.2	152.5	140.7	139.4
C	141.7	155.2	145.1	141.8
E	138.2	151.4	140.6	138.4
Q717 B	140.9	151.7	140.6	141.2
C	143.6	154.1	144.9	143.8
E	139.8	150.5	140.4	140.0

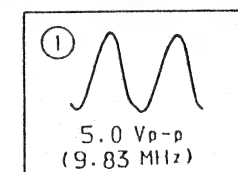
C BOARD

Q701	B DRIVE
Q702	G DRIVE
Q703	R DRIVE
Q704	B BUFFER
Q705	G BUFFER
Q706	R BUFFER
Q707	B OUT
Q708	G OUT
Q709	R OUT
Q710	IK SW 1
Q711	IK SW 2
Q712	IK SW 3
Q713	V. BLK OUT
Q714	V. BLK INT
Q715	TRACE SW 1
Q716	TRACE SW 2
Q717	TRACE SW 3
D701	PROTECT 1
D702	PROTECT 2
D703	PROTECT 3
D704	PROTECT 4
D705	PROTECT 5
D706	PROTECT 6
D707	PROTECT 7
D708	PROTECT 8
D709	PROTECT 9
D713	PROTECT 10
D715	PROTECT 11
D716	PROTECT 12
D717	PROTECT 13

C BOARD WAVEFORMS



M BOARD WAVEFORMS



M BOARD

IC1200	+5V REG
IC1201	MICRO COMPUTER
IC1202	MEMORY
IC1203	SERIAL CONT
IC1204	BUFFER
IC1205	RESET
Q1200	CLOCK BUFFER
D1200	COMBINE

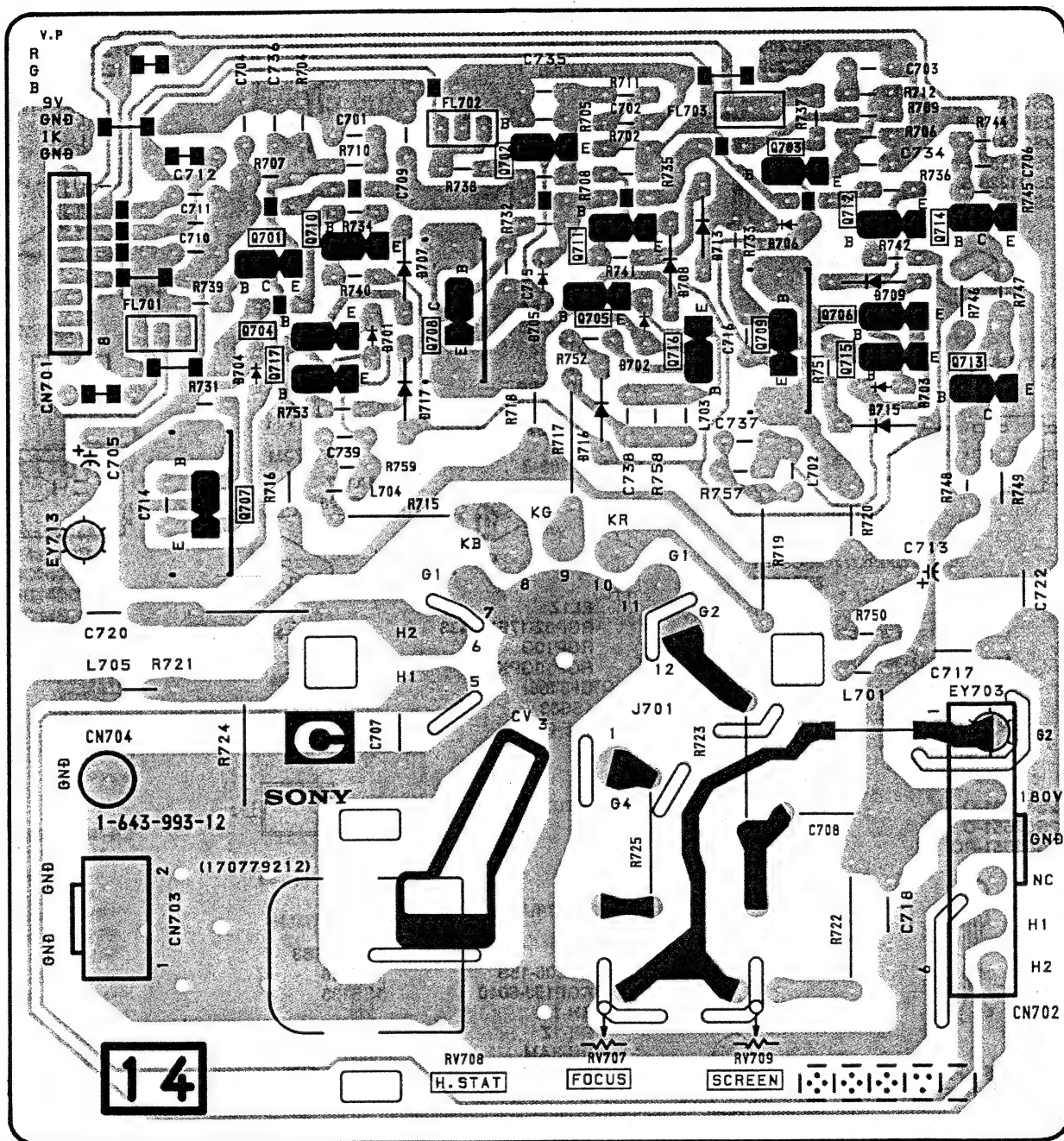
C

[R. G. B OUT]

M

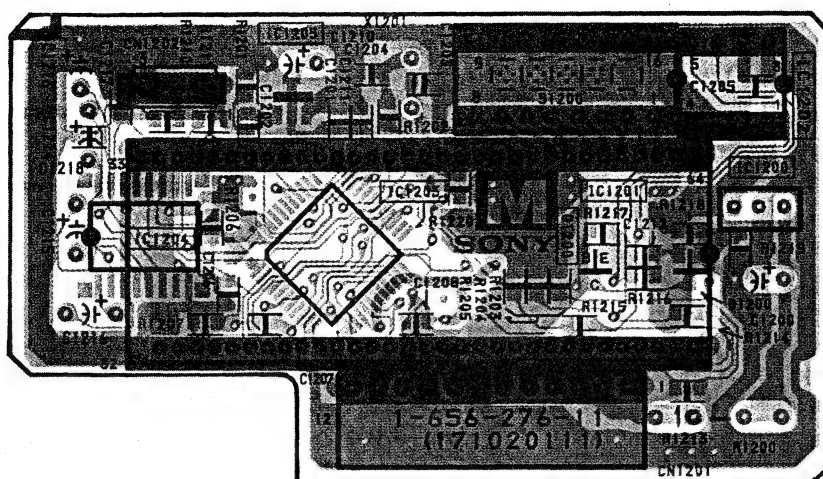
[MICRO COMPUTER, SERIAL CONT]

— C BOARD —



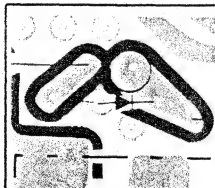
PVM-1353MD/1453MD

- M BOARD -



Note:

- : Pattern from the side which enables seeing.
- : Pattern of the rear.

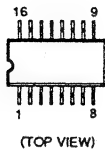


NOTE:

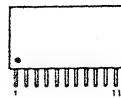
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

6-5. SEMICONDUCTORS

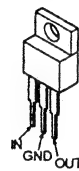
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BU4053BCF
MC14052BF
MC14094BF
MC14538BF
SN74HC4040ANS



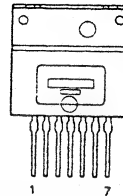
H8D7249



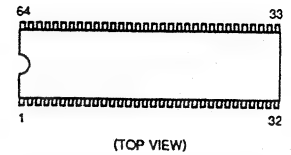
MCT78M05FA
NJM78M05FA
TA7805S



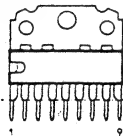
STR-M6523



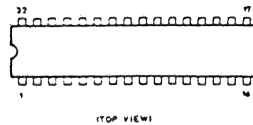
UPD78P014YCW
UPD78013YCW-Y04



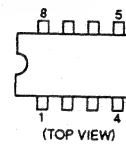
AN5265



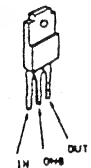
M51279FP



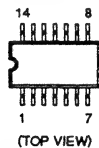
ST24C02CB1



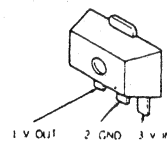
XRA17812T



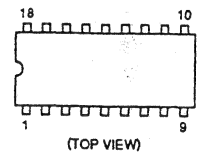
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LM324DR
MC14024BF
MC14066BF
MC14584BF
XRU4066BCF-E2



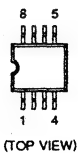
S-80743AL-A7



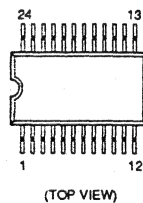
Z8612812PSC



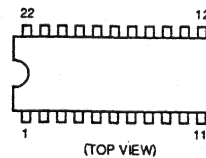
BA7655AF-E2
CXA1211M
LM358D
LM358DR
MM11111XF
MM1113XFF
MM1114XFF
NJM2245M
XRA10393F
XRA10393FU
XRA4558F
UPC4558G2



M62358FP-E1



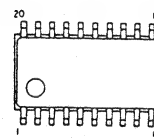
UPC1377C



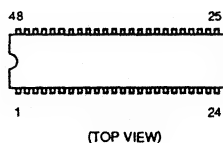
NJM78L05A



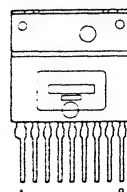
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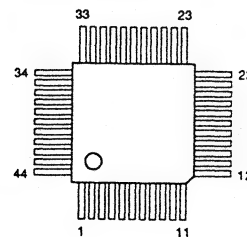
CXA1478S



STR-S3115



UPC71051GB-10

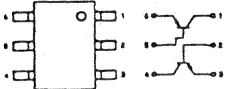


PVM-1353MD/1453MD

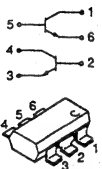
DTA144EK
DTC124EK
DTC144EK
2SA1037K
2SA1162-G
2SC1623-L5L6
2SB709A-R
2SC2412K
2SC4154-E
2SD1328-S
2SD601A



IMT1US



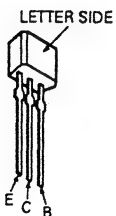
IMX1



2SA1091-O
2SC2551-O
2SC2551-RO



2SA1175-HFE
2SC2785-HFE



2SA1220A
2SC2611
2SC2688
2SC2690A-Q



2SC2958-L
2SD774-3
2SD774-34



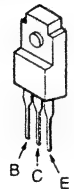
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2SD1134-C



2SD1878-CA



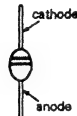
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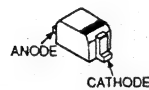
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DSA3A4
ERC38-06
V19E
V19G



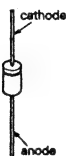
DTZ11B
DTZ13C
DTZ3.6A
DTZ5.6B
DTZ6.2
MA110
RD4.7SB
1SV230-TPH3
1SV232-TPH3



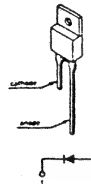
EL1Z
RGP02-17EL-6433
RGP10G
RGP10GPKG23
UF5406
1SS83
10E-2



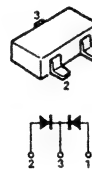
ERC06-15S
RGP15J-6040
RH-1A
RH-1Z
RU-3AM
SIB01-06



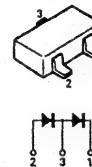
FML-G12S



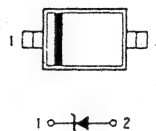
MA151WK
1SS184



MA157
1SS226



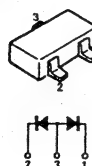
RD10SB1



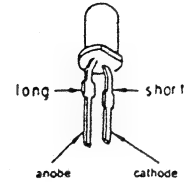
RD16ESB3
1SS119
1SS133



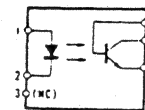
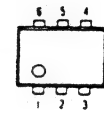
1S2835
1S2836



SEL4410E-D
SLP281C-50
TLG123A
TLY123



PC111YS





SECTION 7

EXPLODED VIEWS

NOTE:

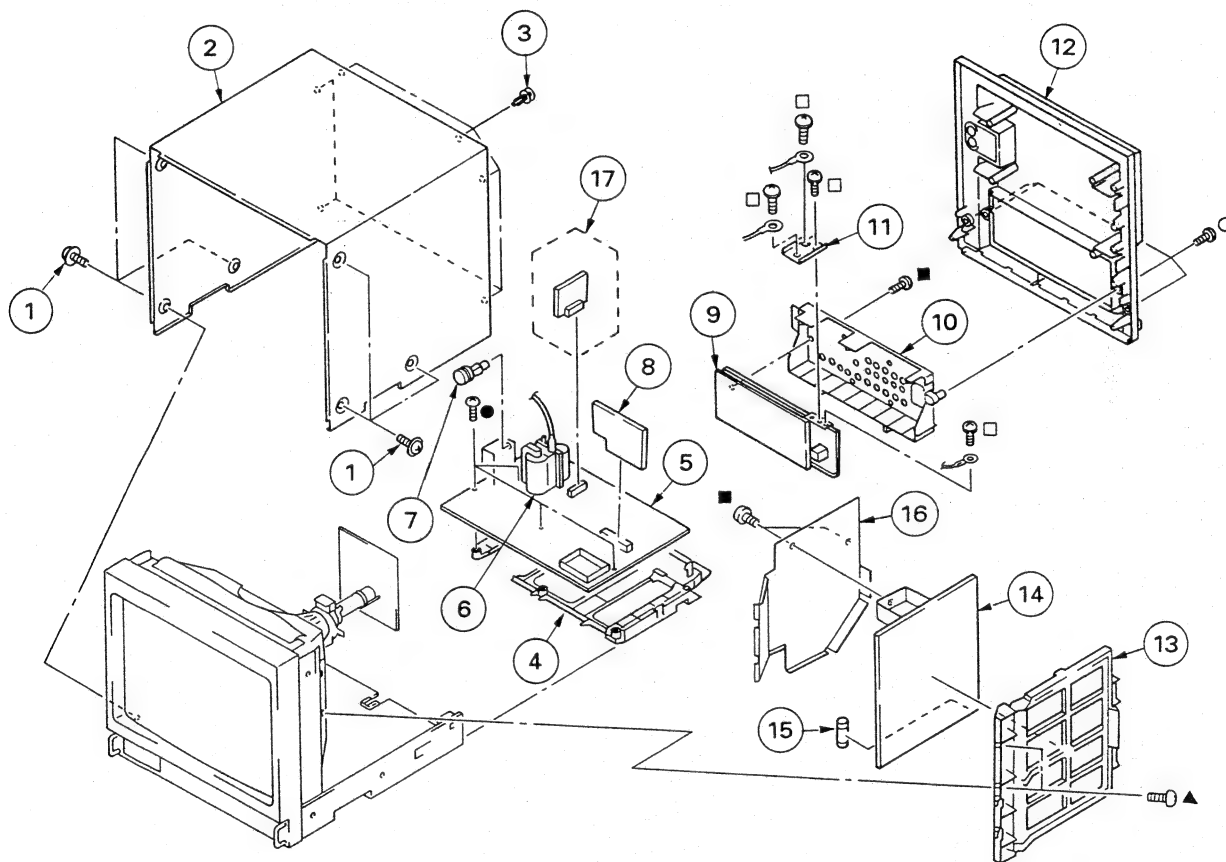
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

7-1. CHASSIS

- : +BVTP 3X12 7-685-648-79
- : +BVTP 3X8 7-685-646-79
- ▲ : +BVTT 4X8 7-682-561-04
- : +BVTP 4X16 7-685-663-79
- : +PS 4X8 7-682-661-09



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
1	4-847-802-11	SCREW (OS), CASE, CLAW		11	*4-043-678-01	TERMINAL, GROUND	
2	X-4032-539-2	COVER ASSY, TOP		12	4-043-687-01	COVER, REAR	
3	4-391-825-01	RIVET, NYLON		13	*4-043-689-01	BRACKET, G	
4	*4-043-690-01	BRACKET, MAIN		14	*A-1316-215-A	G BOARD, COMPLETE (PVM-1453MD)	
5	*A-1297-469-A	A BOARD, COMPLETE			*A-1316-216-A	G BOARD, COMPLETE (PVM-1353MD)	
6	▲ 1-453-163-11	TRANSFORMER ASSY, FLYBACK		15	▲ 1-532-745-11	FUSE, GLASS TUBE 3.15A/125V (PVM-1353MD)	
7	4-386-618-01	RIVET, T TYPE			▲ 1-576-230-11	FUSE, (H.B.C.) 3.15A/125V (PVM-1453MD)	
8	*A-1304-032-A	M BOARD, COMPLETE		16	*4-047-436-01	SHIELD, G PC BOARD	
9	1-537-877-11	TERMINAL BOARD ASSY, I/O (Q BOARD)		17	*A-1390-391-B	S BOARD, COMPLETE (PVM-1353MD)	
10	*4-043-688-21	PANEL, CONNECTOR					

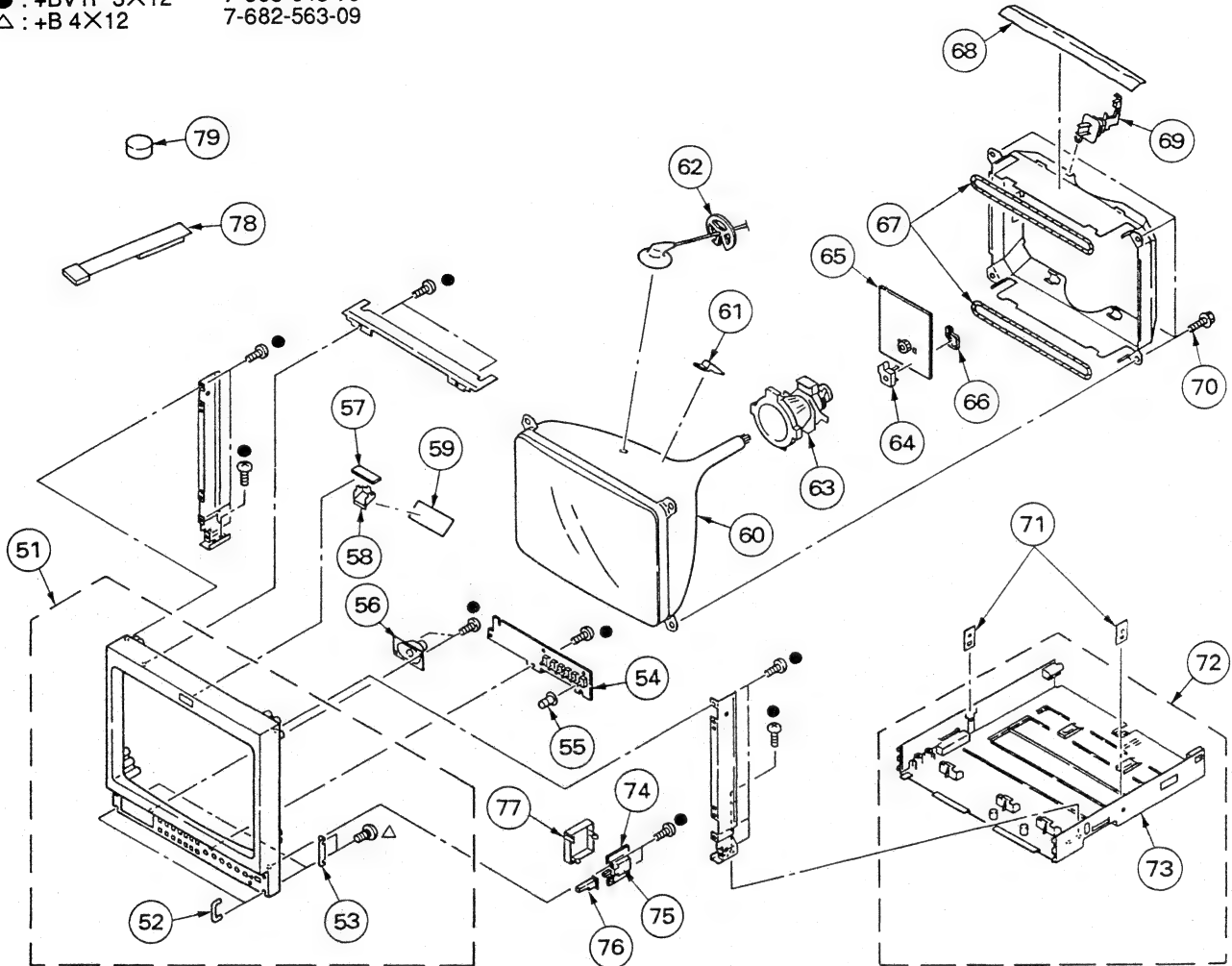
PVM-1353MD/1453MD

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

7-2. PICTURE TUBE

● : +BVTP 3×12 7-685-648-79
 Δ : +B 4×12 7-682-563-09




REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
51	X-4032-540-1	BEZEL ASSY	52, 53	67	Δ 1-426-442-21	COIL, DEMAGNETIZATION	
52	4-043-680-11	HANDLE, PROTECTOR		68	4-391-833-01	CLOTH, PROTECTION	
53	*4-043-679-01	REINFORCEMENT, HANDLE		69	4-033-681-01	HOLDER, LEAD	
54	*A-1372-094-A	H BOARD, COMPLETE		70	4-365-808-01	SCREW (5), TAPPING	
55	X-4030-162-3	KNOB ASSY, CONTROL		71	4-042-608-01	NUT, PLATE	
56	1-544-063-12	SPEAKER		72	X-4031-711-1	CABINET ASSY, BOTTOM	73
57	*A-1390-498-A	X BOARD, COMPLETE		73	4-391-840-04	CABINET, BOTTOM	
58	*4-043-682-01	REFLECTOR, LED		74	*A-1388-166-A	J BOARD, COMPLETE	
59	4-044-606-01	CUSHION, TALLY		75	Δ 1-692-921-11	SWITCH, PUSH (A.C. POWER)	
				76	4-043-683-01	BUTTON, POWER SWITCH	
60	Δ 8-734-525-05	PICTURE TUBE 14FZ-4 (PVM-1353MD)		77	4-043-681-01	COVER, AC SWITCH	
	Δ 8-734-822-05	PICTURE TUBE 14FZ4 (PVM-1353MD)		78	X-4309-608-0	PERMALLOY ASSY, CONVERGENCE	
	Δ 8-734-523-05	PICTURE TUBE 14FZ-2 (PVM-1453MD)		79	1-452-032-00	MAGNET, DISK	
	Δ 8-734-622-05	PICTURE TUBE 14FZ2 (PVM-1453MD)					
61	3-703-961-01	SPACER, DY					
62	*3-704-372-01	HOLDER, HV CABLE					
63	Δ 8-451-329-12	DEFLECTION YOKE Y14FZAM					
64	*4-374-912-01	COVER (MAIN), CV VOL					
65	*A-1331-299-A	C BOARD, COMPLETE					
66	*4-374-913-01	COVER (REAR LID), CV VOL					

SECTION 8


ELECTRICAL PARTS LIST

A

NOTE:

The components identified by shading and mark  are critical for safety.

Replace only with part number specified.

Les composants identifiés par une trame et une marque  sont critiques pour la sécurité.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- All resistors are in ohms
- F : nonflammable


When indicating parts by reference number, please include the board name.

CAPACITORS

• MF : μF , PF : $\mu\mu F$

COILS

• MMH : mH, UH : μ H

- The components identified by  in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

- ✱ : Selected to yield optimum performance.

- There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
*A-1297-469-A	A BOARD, COMPLETE			C171	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
	*****			C174	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
1-540-044-11	SOCKET, IC			C175	1-163-109-00	CERAMIC CHIP 47PF	5% 50V
*4-030-359-01	HEAT SINK, H. PIN			C200	1-124-927-11	ELECT 4.7MF	20% 50V
*4-043-154-01	HOLDER, IC			C201	1-106-383-00	MYLAR 0.047MF	10% 100V
*4-043-994-01	PLATE (CF), SHIELD			C202	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
4-363-414-00	SPACER, MICA			C203	1-124-927-11	ELECT 4.7MF	20% 50V
4-382-854-11	SCREW (M3X10), P. SW (+)			C204	1-124-907-11	ELECT 10MF	20% 50V
				C205	1-124-360-00	ELECT 1000MF	20% 16V
				C206	1-126-375-11	ELECT 100MF	20% 25V
<FILTER>				C207	1-124-478-11	ELECT 100MF	20% 25V
BPF400 1-236-363-11	FILTER, BAND PASS			C208	1-124-907-11	ELECT 10MF	20% 50V
				C209	1-124-927-11	ELECT 4.7MF	20% 50V
<CAPACITOR>				C304	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
				C305	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C105	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C306	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C114	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C310	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C115	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C311	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V
C116	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C312	1-124-925-11	ELECT 2.2MF	20% 50V
C117	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C313	1-163-145-00	CERAMIC CHIP 0.0015MF	5% 50V
C118	1-163-125-00	CERAMIC CHIP 220PF	5% 50V	C314	1-163-249-11	CERAMIC CHIP 82PF	5% 50V
C119	1-165-319-11	CERAMIC CHIP 0.1MF	50V	C315	1-124-907-11	ELECT 10MF	20% 50V
C121	1-163-237-11	CERAMIC CHIP 27PF	5% 50V	C316	1-124-477-11	ELECT 47MF	20% 25V
C123	1-165-319-11	CERAMIC CHIP 0.1MF	50V	C318	1-124-907-11	ELECT 10MF	20% 50V
C124	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C325	1-124-907-11	ELECT 10MF	20% 50V
C132	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	C340	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C133	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C343	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C134	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C349	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C135	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C350	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C136	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C352	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C140	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C353	1-165-319-11	CERAMIC CHIP 0.1MF	50V
C141	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V	C354	1-163-121-00	CERAMIC CHIP 150PF	5% 50V
C142	1-163-125-00	CERAMIC CHIP 220PF	5% 50V	C355	1-124-903-11	ELECT 1MF	20% 50V
C143	1-165-319-11	CERAMIC CHIP 0.1MF	50V	C356	1-124-927-11	ELECT 4.7MF	20% 50V
C144	1-165-319-11	CERAMIC CHIP 0.1MF	50V	C357	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C145	1-165-319-11	CERAMIC CHIP 0.1MF	50V	C358	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C154	1-163-037-11	CERAMIC CHIP 0.022MF	10% 25V	C359	1-124-477-11	ELECT 47MF	20% 25V
C155	1-163-023-00	CERAMIC CHIP 0.015MF	10% 50V	C360	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C156	1-163-019-00	CERAMIC CHIP 0.0068MF	10% 50V	C361	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C157	1-163-019-00	CERAMIC CHIP 0.0068MF	10% 50V	C362	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C158	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	C363	1-163-099-00	CERAMIC CHIP 18PF	5% 50V
C159	1-163-037-11	CERAMIC CHIP 0.022MF	10% 25V	C364	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C161	1-124-477-11	ELECT 47MF	20% 16V	C365	1-106-343-00	MYLAR 0.001MF	10% 100V
C162	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	C366	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C164	1-165-319-11	CERAMIC CHIP 0.1MF	50V	C367	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C165	1-165-319-11	CERAMIC CHIP 0.1MF	50V	C368	1-124-907-11	ELECT 10MF	20% 50V
C166	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C369	1-164-298-11	CERAMIC CHIP 0.15MF	10% 25V
C167	1-124-472-11	ELECT 470MF	20% 10V	C370	1-124-477-11	ELECT 47MF	20% 25V
C168	1-124-472-11	ELECT 470MF	20% 10V	C371	1-124-477-11	ELECT 47MF	20% 25V
C169	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C372	1-163-031-11	CERAMIC CHIP 0.01MF	50V

PVM-1353MD/1453MD

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C374	1-124-903-11	ELECT 1MF	20% 50V	C444	1-165-319-11	CERAMIC CHIP 0.1MF	50V
C375	1-163-125-00	CERAMIC CHIP 220PF	5% 50V	C445	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V
C376	1-124-902-00	ELECT 0.47MF	20% 50V	C446	1-163-089-00	CERAMIC CHIP 6PF	0.25PF 50V
C377	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	C447	1-163-263-11	CERAMIC CHIP 330PF	5% 50V
C378	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	C448	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C379	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C449	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C380	1-124-360-00	ELECT 1000MF	20% 16V	C450	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V
C381	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C451	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C382	1-163-243-11	CERAMIC CHIP 47PF	5% 50V	C452	1-163-263-11	CERAMIC CHIP 330PF	5% 50V
C383	1-124-477-11	ELECT 47MF	20% 25V	C453	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C384	1-163-249-11	CERAMIC CHIP 82PF	5% 50V	C454	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C385	1-124-477-11	ELECT 47MF	20% 25V	C455	1-163-263-11	CERAMIC CHIP 330PF	5% 50V
C386	1-124-907-11	ELECT 10MF	20% 50V	C456	1-163-089-00	CERAMIC CHIP 6PF	0.25PF 50V
C387	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	C457	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C388	1-124-907-11	ELECT 10MF	20% 50V	C458	1-163-249-11	CERAMIC CHIP 82PF	5% 50V
C390	1-163-243-11	CERAMIC CHIP 47PF	5% 50V	C459	1-165-319-11	CERAMIC CHIP 0.1MF	50V
C391	1-124-477-11	ELECT 47MF	20% 25V	C460	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C392	1-164-298-11	CERAMIC CHIP 0.15MF	10% 25V	C461	1-163-119-00	CERAMIC CHIP 120PF	5% 50V
C393	1-164-298-11	CERAMIC CHIP 0.15MF	10% 25V	C462	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C394	1-124-477-11	ELECT 47MF	20% 25V	C463	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C395	1-163-235-11	CERAMIC CHIP 22PF	5% 50V	C464	1-164-299-11	CERAMIC CHIP 0.22MF	10% 25V
C396	1-164-299-11	CERAMIC CHIP 0.22MF	10% 25V	C465	1-163-097-00	CERAMIC CHIP 15PF	5% 50V
C397	1-124-477-11	ELECT 47MF	20% 25V	C466	1-163-119-00	CERAMIC CHIP 120PF	5% 50V
C398	1-124-477-11	ELECT 47MF	20% 25V	C467	1-163-119-00	CERAMIC CHIP 120PF	5% 50V
C399	1-124-477-11	ELECT 47MF	20% 25V	C469	1-163-037-11	CERAMIC CHIP 0.022MF	10% 25V
C400	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C470	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C401	1-164-346-11	CERAMIC CHIP 1MF	16V	C471	1-163-105-00	CERAMIC CHIP 33PF	5% 50V
C402	1-124-910-11	ELECT 47MF	20% 50V	C472	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C403	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C473	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C406	1-124-916-11	ELECT 22MF	20% 50V	C475	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C407	1-124-477-11	ELECT 47MF	20% 25V	C476	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C408	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C477	1-164-299-11	CERAMIC CHIP 0.22MF	10% 25V
C409	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C478	1-124-907-11	ELECT 10MF	20% 50V
C410	1-124-916-11	ELECT 22MF	20% 50V	C479	1-163-121-00	CERAMIC CHIP 150PF	5% 50V
C411	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C482	1-124-472-11	ELECT 470MF	20% 10V
C414	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C483	1-163-249-11	CERAMIC CHIP 82PF	5% 50V
C415	1-124-907-11	ELECT 10MF	20% 50V	C484	1-163-113-00	CERAMIC CHIP 68PF	5% 50V
C416	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C485	1-163-113-00	CERAMIC CHIP 68PF	5% 50V
C417	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C486	1-163-249-11	CERAMIC CHIP 82PF	5% 50V
C418	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V	C487	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
C419	1-124-472-11	ELECT 470MF	20% 10V	C488	1-163-097-00	CERAMIC CHIP 15PF	5% 50V
C420	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	C490	1-164-336-11	CERAMIC CHIP 0.33MF	25V
C421	1-164-222-11	CERAMIC CHIP 0.22MF	25V	C491	1-164-336-11	CERAMIC CHIP 0.33MF	25V
C422	1-124-903-11	ELECT 1MF	20% 50V	C492	1-164-336-11	CERAMIC CHIP 0.33MF	25V
C423	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	C493	1-104-760-11	CERAMIC CHIP 0.047MF	10% 50V
C424	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	C494	1-104-760-11	CERAMIC CHIP 0.047MF	10% 50V
C426	1-163-243-11	CERAMIC CHIP 47PF	5% 50V	C495	1-124-907-11	ELECT 10MF	20% 50V
C427	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C496	1-163-239-11	CERAMIC CHIP 33PF	5% 50V
C428	1-124-119-00	ELECT 330MF	20% 16V	C497	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V
C429	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C498	1-124-925-11	ELECT 2.2MF	20% 50V
C430	1-124-119-00	ELECT 330MF	20% 16V	C499	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C431	1-165-319-11	CERAMIC CHIP 0.1MF	50V	C500	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C432	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C501	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V
C433	1-163-235-11	CERAMIC CHIP 22PF	5% 50V	C502	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C434	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C503	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C435	1-163-089-00	CERAMIC CHIP 6PF	0.25PF 50V	C504	1-136-495-11	FILM 0.068MF	5% 50V
C436	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C505	1-163-199-00	CERAMIC CHIP 560PF	5% 50V
C437	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C506	1-124-902-00	ELECT 0.47MF	20% 50V
C438	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	C507	1-126-375-11	ELECT 100MF	20% 25V
C439	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	C508	1-130-495-00	MYLAR 0.1MF	5% 50V
C440	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C509	1-124-935-11	ELECT 470MF	20% 100V
C441	1-126-962-11	ELECT 3.3MF	20% 50V	C511	1-108-700-11	MYLAR 0.047MF	10% 200V
C442	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	C512	1-124-902-00	ELECT 0.47MF	20% 50V
C443	1-163-243-11	CERAMIC CHIP 47PF	5% 50V				

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

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REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
C513	1-126-096-11	ELECT	10MF	20%	25V	C586	1-124-557-11	ELECT	1000MF	20%	25V
C514	1-129-718-00	FILM	0.022MF	10%	630V						
C515	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V	C587	1-102-030-00	CERAMIC	330PF	10%	500V
C516	1-102-030-00	CERAMIC	330PF	10%	500V	C588	1-124-667-11	ELECT	10MF	20%	50V
C517	1-163-024-00	CERAMIC CHIP	0.018MF	10%	50V	C589	1-102-030-00	CERAMIC	330PF	10%	500V
C518	1-107-995-11	ELECT	100MF	0	160V	C590	1-126-387-11	ELECT	2.2MF	20%	50V
C519	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	C591	1-106-371-00	MYLAR	0.015MF	10%	200V
C520	1-163-257-11	CERAMIC CHIP	180PF	5%	50V	C592	1-123-932-00	ELECT	4.7MF	20%	160V
C521	1-162-114-00	CERAMIC	0.0047MF		2KV	C593	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C522	1-124-360-00	ELECT	1000MF	20%	16V	C594	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
C523	1-126-801-11	ELECT	1MF	20%	50V	C595	1-126-336-11	ELECT	220MF	20%	25V
C525	1-136-545-11	FILM	0.0078MF	3%	2KV	C596	1-124-478-11	ELECT	100MF	20%	25V
C526	1-162-116-91	CERAMIC	680PF	10%	2KV	C597	1-164-346-11	CERAMIC CHIP	1MF		16V
C529	1-104-797-11	ELECT	0.47MF	20%	50V	C598	1-164-346-11	CERAMIC CHIP	1MF		16V
C530	1-124-120-11	ELECT	220MF	20%	25V	C599	1-126-157-11	ELECT	10MF	20%	16V
C531	1-124-477-11	ELECT	47MF	20%	25V	C1300	1-124-477-11	ELECT	47MF	20%	25V
C532	1-163-031-11	CERAMIC CHIP	0.01MF		50V	C1302	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C533	1-102-212-00	CERAMIC	820PF	10%	500V	C1304	1-124-477-11	ELECT	47MF	20%	25V
C534	1-123-948-00	ELECT	22MF	20%	250V	C1305	1-124-477-11	ELECT	47MF	20%	25V
C537	1-124-913-11	ELECT	470MF	20%	50V	C1306	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C538	1-106-367-00	MYLAR	0.01MF	10%	100V	C1307	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C539	1-130-480-00	FILM	0.0056MF	5%	50V	C1308	1-124-443-00	ELECT	100MF	20%	10V
C540	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	C1309	1-163-257-11	CERAMIC CHIP	180PF	5%	50V
C541	1-124-927-11	ELECT	4.7MF	20%	50V	C1310	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C542	1-106-351-00	MYLAR	0.0022MF	10%	100V	C1311	1-124-477-11	ELECT	47MF	20%	25V
C543	1-106-351-00	MYLAR	0.0022MF	10%	100V	C1312	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C544	1-106-367-00	MYLAR	0.01MF	10%	100V	C1313	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C545	1-102-212-00	CERAMIC	820PF	10%	500V	C1314	1-124-477-11	ELECT	47MF	20%	25V
C546	1-163-119-00	CERAMIC CHIP	120PF	5%	50V	C1315	1-124-477-11	ELECT	47MF	20%	25V
C547	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C1316	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C548	1-102-212-00	CERAMIC	820PF	10%	500V	C1317	1-124-477-11	ELECT	47MF	20%	25V
C549	1-124-667-11	ELECT	10MF	20%	50V	C1318	1-124-477-11	ELECT	47MF	20%	25V
C550	1-126-163-11	ELECT	4.7MF	20%	50V	C1319	1-124-477-11	ELECT	47MF	20%	25V
C551	1-106-375-12	MYLAR	0.022MF	10%	100V	C1320	1-124-477-11	ELECT	47MF	20%	25V
C552	1-126-336-11	ELECT	220MF	20%	25V	C1321	1-124-477-11	ELECT	47MF	20%	25V
C554	1-130-736-11	FILM	0.01MF	5%	50V	C1322	1-124-120-11	ELECT	220MF	20%	16V
C555	1-124-907-11	ELECT	10MF	20%	50V	C1323	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C556	1-124-907-11	ELECT	10MF	20%	50V	C1324	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C557	1-106-381-12	MYLAR	0.039MF	10%	100V	C1325	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C558	1-124-903-11	ELECT	1MF	20%	50V	C1326	1-124-477-11	ELECT	47MF	20%	25V
C559	1-136-173-00	FILM	0.47MF	5%	50V	C1327	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C561	1-136-159-00	FILM	0.033MF	5%	50V	C1328	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C562	1-163-249-11	CERAMIC CHIP	82PF	5%	50V	C1329	1-124-907-11	ELECT	10MF	20%	50V
C564	1-124-907-11	ELECT	10MF	20%	50V	C1330	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C565	1-124-903-11	ELECT	1MF	20%	50V	C1331	1-124-477-11	ELECT	47MF	20%	25V
C566	1-106-367-00	MYLAR	0.01MF	10%	100V	C1332	1-124-477-11	ELECT	47MF	20%	25V
C567	1-136-499-11	FILM	0.047MF	5%	50V	C1333	1-124-477-11	ELECT	47MF	20%	25V
C568	1-124-903-11	ELECT	1MF	20%	50V	C1334	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C569	1-131-351-00	TANTALUM	4.7MF	10%	25V	C1335	1-124-477-11	ELECT	47MF	20%	25V
C570	1-124-360-00	ELECT	1000MF	20%	16V	C1336	1-124-477-11	ELECT	47MF	20%	25V
C571	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	C1338	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C572	1-104-709-11	ELECT	4.7MF	0	160V	C1339	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C573	1-136-173-00	FILM	0.47MF	5%	50V	C1340	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C575	1-163-031-11	CERAMIC CHIP	0.01MF		50V	C1341	1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V
C576	1-102-244-00	CERAMIC	220PF	10%	500V	C1342	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
C577	1-124-907-11	ELECT	10MF	20%	50V	C1343	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C578	1-136-540-11	FILM	0.82MF	5%	200V	C1344	1-163-083-00	CERAMIC CHIP	1PF	0.25PF	50V
C579	1-126-804-11	ELECT	100MF	20%	50V	C1345	1-124-907-11	ELECT	10MF	20%	50V
C580	1-136-756-11	FILM	0.24MF	5%	200V	C1346	1-124-477-11	ELECT	47MF	20%	25V
C581	1-124-927-11	ELECT	4.7MF	20%	50V	C1347	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C582	1-102-002-00	CERAMIC	680PF	10%	500V	C1348	1-163-127-00	CERAMIC CHIP	270PF	5%	50V
C583	1-136-569-11	FILM	1.2MF	5%	200V	C1349	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C584	1-123-267-00	ELECT	2.2MF	20%	160V	C1350	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C585	1-124-666-11	ELECT	4.7MF	20%	250V	C1351	1-124-903-11	ELECT	1MF	20%	50V

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C1352	1-163-023-00	CERAMIC CHIP 0.015MF	10%	50V	<CONNECTOR>		
C1353	1-163-031-11	CERAMIC CHIP 0.01MF		50V	CN101	*1-573-979-11	CONNECTOR, BOARD TO BOARD 11P
C1354	1-163-121-00	CERAMIC CHIP 150PF	5%	50V	CN102	*1-564-514-11	PLUG, CONNECTOR 11P
C1355	1-163-125-00	CERAMIC CHIP 220PF	5%	50V	CN104	*1-564-506-11	PLUG, CONNECTOR 3P
C1356	1-163-235-11	CERAMIC CHIP 22PF	5%	50V	CN105	*1-565-503-11	CONNECTOR, BOARD TO BOARD 12P
C1357	1-124-119-00	ELECT 330MF	20%	16V	CN201	*1-564-506-11	PLUG, CONNECTOR 3P
C1358	1-124-477-11	ELECT 47MF	20%	25V	CN301	*1-564-514-11	PLUG, CONNECTOR 11P
C1359	1-163-263-11	CERAMIC CHIP 330PF	5%	50V	CN302	*1-564-510-11	PLUG, CONNECTOR 7P
C1360	1-164-161-11	CERAMIC CHIP 0.0022MF	10%	50V	CN303	*1-564-515-11	PLUG, CONNECTOR 12P
C1362	1-163-249-11	CERAMIC CHIP 82PF	5%	50V	CN304	*1-564-509-11	PLUG, CONNECTOR 6P
C1363	1-163-235-11	CERAMIC CHIP 22PF	5%	50V	CN305	*1-565-504-11	CONNECTOR, BOARD TO BOARD 13P
C1364	1-163-133-00	CERAMIC CHIP 470PF	5%	50V	CN306	1-564-505-11	PLUG, CONNECTOR 2P
C1365	1-163-227-11	CERAMIC CHIP 10PF	0.5PF	50V	CN401	*1-564-511-11	PLUG, CONNECTOR 8P
C1366	1-124-477-11	ELECT 47MF	20%	25V	CN402	*1-564-515-11	PLUG, CONNECTOR 12P
C1367	1-124-477-11	ELECT 47MF	20%	25V	CN501	*1-580-798-11	CONNECTOR PIN (DY) 6P
C1372	1-124-477-11	ELECT 47MF	20%	25V	CN502	*1-573-964-11	PIN, CONNECTOR (PC BOARD) 6P
C1373	1-124-477-11	ELECT 47MF	20%	25V	CN503	*1-573-964-11	PIN, CONNECTOR (PC BOARD) 6P
C1374	1-124-477-11	ELECT 47MF	20%	25V	CN504	*1-564-508-11	PLUG, CONNECTOR 5P
C1375	1-124-927-11	ELECT 4.7MF	20%	50V	CN505	*1-564-506-11	PLUG, CONNECTOR 3P
C1378	1-163-097-00	CERAMIC CHIP 15PF	5%	50V	CN507	*1-535-419-00	TAB, FASTEN (PCB)
C1382	1-124-443-00	ELECT 100MF	20%	10V	<COMPOSITION CIRCUIT BLOCK>		
C1384	1-163-038-91	CERAMIC CHIP 0.1MF		25V	CP300	1-236-366-11	MODULE, TRAP
C1385	1-163-031-11	CERAMIC CHIP 0.01MF		50V	CP301	1-236-365-11	MODULE, TRAP
C1386	1-163-031-11	CERAMIC CHIP 0.01MF		50V	CP302	1-808-654-21	MODULE
C1387	1-163-031-11	CERAMIC CHIP 0.01MF		50V	CP303	1-466-162-61	FILTER BLOCK, COM (CFB-4)
C1391	1-164-222-11	CERAMIC CHIP 0.22MF		25V	<DIODE>		
C1392	1-124-234-00	ELECT 22MF	20%	16V	D100	8-719-404-46	DIODE MA110
C1394	1-124-477-11	ELECT 47MF	20%	16V	D101	8-719-800-76	DIODE 1SS226
C1395	1-124-477-11	ELECT 47MF	20%	16V	D102	8-719-800-76	DIODE 1SS226
C1396	1-163-275-11	CERAMIC CHIP 0.001MF	5%	50V	D103	8-719-045-70	DIODE 1SV230TPH3
C1397	1-163-031-11	CERAMIC CHIP 0.01MF		50V	D104	8-719-800-76	DIODE 1SS226
C1398	1-124-477-11	ELECT 47MF	20%	16V	D105	8-719-800-76	DIODE 1SS226
C1399	1-124-234-00	ELECT 22MF	20%	16V	D106	8-719-800-76	DIODE 1SS226
C1400	1-163-031-11	CERAMIC CHIP 0.01MF		50V	D107	8-719-800-76	DIODE 1SS226
C1401	1-136-173-00	FILM 0.47MF	5%	50V	D108	8-719-104-34	DIODE 1S2836
C1402	1-163-031-11	CERAMIC CHIP 0.01MF		50V	D109	8-719-801-78	DIODE 1SS184
C1403	1-136-173-00	FILM 0.47MF	5%	50V	D111	8-719-977-05	DIODE DTZ6.2
C1404	1-164-299-11	CERAMIC CHIP 0.22MF	10%	25V	D113	8-719-159-06	DIODE RD4.7SB-T2
C1405	1-163-235-11	CERAMIC CHIP 22PF	5%	50V	D114	8-719-404-46	DIODE MA110
C1406	1-163-090-00	CERAMIC CHIP 7PF	0.25PF	50V	D115	8-719-977-05	DIODE DTZ6.2
C1407	1-163-085-00	CERAMIC CHIP 2PF	0.25PF	50V	D116	8-719-404-46	DIODE MA110
C1408	1-163-113-00	CERAMIC CHIP 68PF	5%	50V	D200	8-719-977-46	DIODE DTZ13C
C1500	1-124-556-11	ELECT 2200MF	20%	16V	D300	8-719-025-07	DIODE 1SV232-TPH3
C1501	1-124-472-11	ELECT 470MF	20%	10V	D301	8-719-404-46	DIODE MA110
C1502	1-101-821-00	CERAMIC 0.0022MF		500V	D302	8-719-159-06	DIODE RD4.7SB-T2
C1503	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	D303	8-719-977-05	DIODE DTZ6.2
C1504	1-124-907-11	ELECT 10MF	20%	50V	D304	8-719-801-78	DIODE 1SS184
C1505	1-136-165-00	FILM 0.1MF	5%	50V	D305	8-719-800-76	DIODE 1SS226
C1506	1-124-119-00	ELECT 330MF	20%	16V	D306	8-719-104-34	DIODE 1S2836
C1507	1-163-141-00	CERAMIC CHIP 0.001MF	5%	50V	D307	8-719-404-46	DIODE MA110
C1508	1-124-927-11	ELECT 4.7MF	20%	50V	D308	8-719-404-46	DIODE MA110
C1509	1-124-907-11	ELECT 10MF	20%	50V	D309	8-719-404-46	DIODE MA110
C1510	1-124-927-11	ELECT 4.7MF	20%	50V	D310	8-719-104-34	DIODE 1S2836
C1511	1-164-182-11	CERAMIC CHIP 0.0033MF	10%	50V	D311	8-719-045-70	DIODE 1SV230TPH3
C1512	1-124-927-11	ELECT 4.7MF	20%	50V	D313	8-719-801-78	DIODE 1SS184
C1513	1-163-197-00	CERAMIC CHIP 470PF	5%	50V	D314	8-719-404-46	DIODE MA110
C1514	1-130-477-00	MYLAR 0.0033MF	5%	50V	D315	8-719-404-46	DIODE MA110
C1515	1-124-907-11	ELECT 10MF	20%	50V	D317	8-719-404-46	DIODE MA110
C1516	1-163-063-00	CERAMIC CHIP 0.022MF	10%	50V	D320	8-719-404-46	DIODE MA110
C1517	1-126-101-11	ELECT 100MF	20%	10V			
C1518	1-124-477-11	ELECT 47MF	20%	16V			
C1519	1-163-037-11	CERAMIC CHIP 0.022MF	10%	25V			
C1521	1-163-243-11	CERAMIC CHIP 47PF	5%	50V			

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The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
IC316	8-759-084-76	IC MM1111XF		L406	1-408-419-00	INDUCTOR 68UH	
IC317	8-759-009-51	IC MC14538BF		L407	1-408-413-00	INDUCTOR 22UH	
IC318	8-759-009-67	IC MC14584BF		L408	1-408-413-00	INDUCTOR 22UH	
IC319	8-759-509-05	IC XRU4066BCF		L409	1-410-214-31	INDUCTOR CHIP 68UH	
IC320	8-759-287-89	IC MM1113XFF		L500	1-459-155-00	COIL (WITH CORE) 45UH	
IC321	8-759-287-89	IC MM1113XFF		L501	1-407-365-00	COIL, CHOKER	
IC322	8-759-287-89	IC MM1113XFF		L502	1-407-365-00	COIL, CHOKER	
IC323	8-759-287-89	IC MM1113XFF		L503	1-410-093-11	INDUCTOR 33MMH	
IC324	8-759-287-89	IC MM1113XFF		L504	1-410-666-31	INDUCTOR 18UH	
IC325	8-759-287-89	IC MM1113XFF		L505	1-410-671-31	INDUCTOR 47UH	
IC326	8-759-060-00	IC BA10324AF		L507	1-410-686-11	INDUCTOR 1MMH	
IC327	8-759-084-76	IC MM1111XF		L508	1-412-530-31	INDUCTOR 27UH	
IC350	8-759-100-96	IC UPC4558G2		L509	1-459-075-11	COIL, DYNAMIC CONVERSION CHOKER	
IC401	8-759-196-69	IC BAT655AF-E2		L511	1-459-106-00	COIL, DUST CORE	
IC402	8-752-053-21	IC CXA1211M		L512 Δ	1-459-155-11	COIL (WITH CORE) 45UH	
IC403	8-759-008-67	IC MC14066BF		L513	1-412-447-11	INDUCTOR 3.9MMH	
IC404	8-752-052-62	IC CXA1478S		L514	1-459-104-00	COIL, DUST CORE	
IC405	8-759-932-67	IC BU4053BCF		L515	1-459-059-00	COIL, DUST CORE	
IC406	8-759-998-98	IC LM358D		L516 Δ	1-459-760-13	COIL, HORIZONTAL LINEARITY	
IC407	8-759-008-67	IC MC14066BF		L517	1-412-547-21	INDUCTOR 680UH	
IC408	8-759-509-91	IC XRA10393F				<NEON LAMP>	
IC409	8-759-060-00	IC BA10324AF		NL500	1-519-526-11	LAMP, NEON	
IC410	8-759-009-06	IC MC14052BF				<TRANSISTOR>	
IC411	8-759-008-92	IC MC14024BF		Q101	8-729-901-01	TRANSISTOR DTC144EK	
IC412	8-759-932-67	IC BU4053BCF		Q102	8-729-216-22	TRANSISTOR 2SA1162-G	
IC413	8-759-932-67	IC BU4053BCF		Q103	8-729-216-22	TRANSISTOR 2SA1162-G	
IC500	8-749-010-07	IC H8D7248		Q104	8-729-907-26	TRANSISTOR 1MX1	
IC502	8-759-009-51	IC MC14538BF		Q105	8-729-901-06	TRANSISTOR DTA144EK	
IC503	8-759-009-51	IC MC14538BF		Q107	8-729-901-06	TRANSISTOR DTA144EK	
IC504	8-752-053-21	IC CXA1211M		Q108	8-729-422-29	TRANSISTOR 2SD601A	
IC505	8-759-520-07	IC XRA17812T		Q109	8-729-422-29	TRANSISTOR 2SD601A	
IC506	8-759-009-51	IC MC14538BF		Q110	8-729-422-29	TRANSISTOR 2SD601A	
IC507	8-759-100-60	IC UPC1377C		Q111	8-729-901-06	TRANSISTOR DTA144EK	
IC508	8-752-053-21	IC CXA1211M		Q112	8-729-422-29	TRANSISTOR 2SD601A	
IC509	8-759-998-98	IC LM358D		Q113	8-729-422-29	TRANSISTOR 2SD601A	
IC510	8-759-009-51	IC MC14538BF		Q114	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
		<CONDUCTOR CHIP>		Q115	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
JR302	1-216-295-91	CONDUCTOR, CHIP		Q200	8-729-140-96	TRANSISTOR 2SD774-34	
		<COIL>		Q201	8-729-422-29	TRANSISTOR 2SD601A	
L101	1-408-609-41	INDUCTOR 33UH		Q300	8-729-422-29	TRANSISTOR 2SD601A	
L102	1-408-417-00	INDUCTOR 47UH		Q301	8-729-422-29	TRANSISTOR 2SD601A	
L104	1-408-425-00	INDUCTOR 220UH		Q302	8-729-422-37	TRANSISTOR 2SB709A-R	
L105	1-410-482-31	INDUCTOR 100UH		Q303	8-729-422-29	TRANSISTOR 2SD601A	
L300	1-410-478-11	INDUCTOR 47UH		Q305	8-729-422-29	TRANSISTOR 2SD601A	
L305	1-410-196-11	INDUCTOR CHIP 2.2UH		Q306	8-729-422-29	TRANSISTOR 2SD601A	
L308	1-410-466-41	INDUCTOR 4.7UH		Q307	8-729-422-29	TRANSISTOR 2SD601A	
L309	1-410-470-11	INDUCTOR 10UH		Q308	8-729-422-29	TRANSISTOR 2SD601A	
L311	1-410-470-11	INDUCTOR 10UH		Q309	8-729-422-37	TRANSISTOR 2SB709A-R	
L312	1-412-011-31	INDUCTOR CHIP 27UH		Q310	8-729-422-37	TRANSISTOR 2SB709A-R	
L314	1-412-011-31	INDUCTOR CHIP 27UH		Q311	8-729-422-37	TRANSISTOR 2SB709A-R	
L316	1-412-011-31	INDUCTOR CHIP 27UH		Q312	8-729-422-29	TRANSISTOR 2SD601A	
L317	1-410-090-41	INDUCTOR 18MMH		Q313	8-729-422-37	TRANSISTOR 2SB709A-R	
L319	1-408-421-00	INDUCTOR 100UH		Q314	8-729-901-06	TRANSISTOR DTA144EK	
L320	1-410-682-31	INDUCTOR 470UH		Q315	8-729-422-37	TRANSISTOR 2SB709A-R	
L401	1-410-478-11	INDUCTOR 47UH		Q316	8-729-422-29	TRANSISTOR 2SD601A	
L402	1-410-216-31	INDUCTOR CHIP 100UH		Q318	8-729-422-37	TRANSISTOR 2SB709A-R	
L403	1-410-216-31	INDUCTOR CHIP 100UH		Q319	8-729-422-29	TRANSISTOR 2SD601A	
L404	1-410-216-31	INDUCTOR CHIP 100UH		Q320	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L405	1-408-419-00	INDUCTOR 68UH		Q321	8-729-422-29	TRANSISTOR 2SD601A	
				Q322	8-729-422-29	TRANSISTOR 2SD601A	

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R108	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R308	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R109	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R311	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R110	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R312	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R113	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R313	1-216-649-11	METAL CHIP	820 0.50% 1/10W
R116	1-218-761-11	METAL CHIP	240K 0.50% 1/10W	R314	1-216-099-00	METAL GLAZE	120K 5% 1/10W
R117	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R315	1-216-099-00	METAL GLAZE	120K 5% 1/10W
R119	1-216-689-11	METAL GLAZE	39K 5% 1/10W	R316	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R124	1-216-295-91	CONDCTOR, CHIP		R317	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R130	1-216-099-00	METAL GLAZE	120K 5% 1/10W	R318	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R132	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R320	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R133	1-216-091-00	METAL GLAZE	56K 5% 1/10W	R321	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W
R134	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R322	1-216-035-00	METAL GLAZE	270 5% 1/10W
R135	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R323	1-216-109-00	METAL GLAZE	330K 5% 1/10W
R137	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R324	1-216-101-00	METAL GLAZE	150K 5% 1/10W
R140	1-216-033-00	METAL GLAZE	220 5% 1/10W	R325	1-216-037-00	METAL GLAZE	330 5% 1/10W
R141	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R326	1-216-033-00	METAL GLAZE	220 5% 1/10W
R144	1-216-295-91	CONDCTOR, CHIP		R328	1-216-121-00	METAL GLAZE	1M 5% 1/10W
R149	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R329	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R151	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R330	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R154	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R331	1-216-093-00	METAL GLAZE	68K 5% 1/10W
R155	1-216-083-00	METAL GLAZE	27K 5% 1/10W	R332	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R157	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R333	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R158	1-216-295-91	CONDCTOR, CHIP		R334	1-216-093-00	METAL GLAZE	68K 5% 1/10W
R159	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	R335	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R160	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R336	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R161	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R342	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R162	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R345	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W
R163	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R346	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R164	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R349	1-216-694-11	METAL CHIP	62K 0.50% 1/10W
R165	1-216-295-91	CONDCTOR, CHIP		R350	1-216-085-00	METAL GLAZE	33K 5% 1/10W
R167	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R351	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R168	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R354	1-216-123-11	METAL GLAZE	1.2M 5% 1/10W
R169	1-216-107-00	METAL GLAZE	270K 5% 1/10W	R357	1-216-121-00	METAL GLAZE	1M 5% 1/10W
R171	1-216-031-00	METAL GLAZE	180 5% 1/10W	R366	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R172	1-216-295-91	CONDCTOR, CHIP		R371	1-216-025-91	METAL GLAZE	100 5% 1/10W
R176	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R372	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R177	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R373	1-216-645-11	METAL CHIP	560 0.50% 1/10W
R178	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R374	1-216-647-11	METAL CHIP	680 0.50% 1/10W
R181	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R375	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R184	1-216-649-11	METAL CHIP	820 0.50% 1/10W	R376	1-216-111-00	METAL GLAZE	390K 5% 1/10W
R185	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R378	1-216-114-00	METAL GLAZE	510K 5% 1/10W
R187	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R379	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R189	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R380	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R190	1-216-049-91	METAL GLAZE	1K 5% 1/10W	R381	1-216-689-11	METAL GLAZE	39K 5% 1/10W
R192	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R382	1-216-101-00	METAL GLAZE	150K 5% 1/10W
R195	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W	R386	1-216-091-00	METAL GLAZE	56K 5% 1/10W
R197	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R387	1-216-029-00	METAL GLAZE	150 5% 1/10W
R199	1-216-295-91	CONDCTOR, CHIP		R388	1-216-039-00	METAL GLAZE	390 5% 1/10W
R200	1-208-817-11	METAL CHIP	30K 0.50% 1/10W	R389	1-216-649-11	METAL CHIP	820 0.50% 1/10W
R201	1-216-049-91	METAL GLAZE	1K 5% 1/10W	R390	1-249-393-11	CARBON	10 5% 1/4W F
R202	1-212-857-00	FUSIBLE	10 5% 1/4W F	R393	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R203	1-260-095-11	CARBON	470 5% 1/2W	R394	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R204	1-260-072-11	CARBON	4.7 5% 1/2W	R395	1-216-651-11	METAL CHIP	1K 0.50% 1/10W
R205	1-216-647-11	METAL CHIP	680 0.50% 1/10W	R397	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R206	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R398	1-216-105-91	METAL GLAZE	220K 5% 1/10W
R207	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R399	1-216-111-00	METAL GLAZE	390K 5% 1/10W
R208	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R400	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R209	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R401	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R210	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R402	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R211	1-249-393-11	CARBON	10 5% 1/4W F	R403	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R237	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R404	1-216-029-00	METAL GLAZE	150 5% 1/10W
R302	1-216-025-91	METAL GLAZE	100 5% 1/10W	R406	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R304	1-216-025-91	METAL GLAZE	100 5% 1/10W	R407	1-216-085-00	METAL GLAZE	33K 5% 1/10W
R307	1-216-115-00	METAL GLAZE	560K 5% 1/10W				

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R408	1-216-689-11	METAL CHIP	39K 0.50% 1/10W	R480	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R410	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	R481	1-216-033-00	METAL GLAZE	220 5% 1/10W
R411	1-216-033-00	METAL GLAZE	220 5% 1/10W	R482	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R412	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R483	1-216-025-91	METAL GLAZE	100 5% 1/10W
R413	1-208-799-11	METAL CHIP	5.1K 0.50% 1/10W	R484	1-216-651-11	METAL CHIP	1K 0.50% 1/10W
R416	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R485	1-216-033-00	METAL GLAZE	220 5% 1/10W
R417	1-216-665-11	METAL CHIP	3.9K 0.50% 1/10W	R486	1-208-812-11	METAL CHIP	18K 0.50% 1/10W
R418	1-216-667-11	METAL CHIP	4.7K 0.50% 1/10W	R487	1-208-784-11	METAL CHIP	1.2K 0.50% 1/10W
R419	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R488	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R420	1-216-689-11	METAL GLAZE	39K 5% 1/10W	R489	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R422	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R490	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R423	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R491	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R424	1-216-033-00	METAL GLAZE	220 5% 1/10W	R492	1-216-085-00	METAL GLAZE	33K 5% 1/10W
R425	1-216-049-91	METAL GLAZE	1K 5% 1/10W	R493	1-216-295-91	CONDUCTOR, CHIP	
R426	1-216-039-00	METAL GLAZE	390 5% 1/10W	R494	1-216-085-00	METAL GLAZE	33K 5% 1/10W
R427	1-216-033-00	METAL GLAZE	220 5% 1/10W	R495	1-216-651-11	METAL CHIP	1K 0.50% 1/10W
R428	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R496	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R429	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R497	1-208-784-11	METAL CHIP	1.2K 0.50% 1/10W
R430	1-216-119-00	METAL GLAZE	820K 5% 1/10W	R498	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R431	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R499	1-216-033-00	METAL GLAZE	220 5% 1/10W
R432	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R500	1-216-689-11	METAL GLAZE	39K 5% 1/10W
R434	1-216-109-00	METAL GLAZE	330K 5% 1/10W	R501	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R435	1-216-105-91	METAL GLAZE	220K 5% 1/10W	R502	1-216-677-11	METAL CHIP	12K 0.50% 1/10W
R436	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R503	1-249-430-11	CARBON	12K 5% 1/4W
R437	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R504	1-216-111-00	METAL GLAZE	390K 5% 1/10W
R438	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R505	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R439	1-216-033-00	METAL GLAZE	220 5% 1/10W	R506	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R440	1-216-049-91	METAL GLAZE	1K 5% 1/10W	R507	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R441	1-216-645-11	METAL CHIP	560 0.50% 1/10W	R508	1-216-105-91	METAL GLAZE	220K 5% 1/10W
R442	1-216-647-11	METAL CHIP	680 0.50% 1/10W	R509	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R443	1-216-049-91	METAL GLAZE	1K 5% 1/10W	R510	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R444	1-216-105-91	METAL GLAZE	220K 5% 1/10W	R511	1-216-099-00	METAL GLAZE	120K 5% 1/10W
R445	1-216-095-00	METAL GLAZE	82K 5% 1/10W	R512	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R447	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	R513	1-216-295-91	CONDUCTOR, CHIP	
R448	1-216-049-91	METAL GLAZE	1K 5% 1/10W	R514	1-216-295-91	CONDUCTOR, CHIP	
R449	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R515	1-208-806-11	METAL CHIP	10K 0.50% 1/10W
R450	1-216-121-00	METAL GLAZE	1M 5% 1/10W	R516	1-216-103-91	METAL GLAZE	180K 5% 1/10W
R451	1-216-037-00	METAL GLAZE	330 5% 1/10W	R517	1-214-888-00	METAL	10K 1% 1/2W
R452	1-216-651-11	METAL CHIP	1K 0.50% 1/10W	R518	1-260-123-11	CARBON	100K 5% 1/2W
R453	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R519	1-216-017-00	METAL GLAZE	47 5% 1/10W
R455	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R520	1-249-423-11	CARBON	3.3K 5% 1/4W F
R456	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R521	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R457	1-216-025-91	METAL GLAZE	100 5% 1/10W	R522	1-260-111-11	CARBON	10K 5% 1/2W
R458	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R523	1-215-892-11	METAL OXIDE	1K 5% 2W F
R459	1-216-649-11	METAL CHIP	820 0.50% 1/10W	R524	1-216-093-00	METAL GLAZE	68K 5% 1/10W
R460	1-216-295-91	CONDUCTOR, CHIP		R525	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R462	1-216-651-11	METAL CHIP	1K 0.50% 1/10W	R526	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R463	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R527	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R464	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R528	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R465	1-216-025-91	METAL GLAZE	100 5% 1/10W	R529	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R466	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R530	1-216-367-11	METAL OXIDE	0.68 5% 2W F
R467	1-216-121-00	METAL GLAZE	1M 5% 1/10W	R531	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R468	1-216-105-91	METAL GLAZE	220K 5% 1/10W	R532	1-215-919-11	METAL OXIDE	2.2K 5% 3W F
R469	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	R533	1-247-723-11	CARBON	6.8K 5% 1/4W F
R470	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	R534	1-216-085-00	METAL GLAZE	33K 5% 1/10W
R471	1-216-109-00	METAL GLAZE	330K 5% 1/10W	R535	1-249-448-11	CARBON	1.2 5% 1/4W F
R472	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R536	1-216-101-00	METAL GLAZE	150K 5% 1/10W
R473	1-216-121-00	METAL GLAZE	1M 5% 1/10W	R537	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R474	1-216-649-11	METAL CHIP	820 0.50% 1/10W	R539	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R475	1-216-025-91	METAL GLAZE	100 5% 1/10W	R540	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R476	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R541	1-249-383-11	CARBON	1.5 5% 1/4W F
R477	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R542	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R478	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R543	1-212-883-00	FUSIBLE	120 5% 1/4W F
R479	1-216-085-00	METAL GLAZE	33K 5% 1/10W				

PVM-1353MD/1453MD

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R544	1-216-095-00	METAL GLAZE	82K 5% 1/10W	R1119	1-216-694-11	METAL CHIP	62K 0.50% 1/10W
R545	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1120	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R546	1-249-425-11	CARBON	4.7K 5% 1/4W F	R1123	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R547	1-216-091-00	METAL GLAZE	56K 5% 1/10W	R1124	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R548	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R1125	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R549	1-216-677-11	METAL CHIP	12K 0.50% 1/10W	R1126	1-216-041-00	METAL GLAZE	470 5% 1/10W
R550	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R1128	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R551	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R1129	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R552	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1130	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R553	1-216-083-00	METAL GLAZE	27K 5% 1/10W	R1131	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R554	1-216-095-00	METAL GLAZE	82K 5% 1/10W	R1132	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R555	1-208-823-11	METAL CHIP	51K 0.50% 1/10W	R1133	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R556	1-215-899-11	METAL GLAZE	15K 5% 2W F	R1134	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R558	1-247-711-11	CARBON	680 5% 1/4W F	R1136	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R559	1-216-109-00	METAL GLAZE	330K 5% 1/10W	R1137	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R560	1-216-091-00	METAL GLAZE	56K 5% 1/10W	R1138	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R561	1-216-049-91	METAL GLAZE	1K 5% 1/10W	R1139	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R563	1-216-017-00	METAL GLAZE	47 5% 1/10W	R1140	1-208-784-11	METAL CHIP	1.2K 0.50% 1/10W
R564	1-216-107-00	METAL GLAZE	270K 5% 1/10W	R1141	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R565	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1142	1-208-784-11	METAL CHIP	1.2K 0.50% 1/10W
R566	1-216-685-11	METAL CHIP	27K 0.50% 1/10W	R1143	1-208-784-11	METAL CHIP	1.2K 0.50% 1/10W
R567	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1144	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R568	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1145	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R569	1-260-114-11	CARBON	18K 5% 1/2W	R1146	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R571	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R1147	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R572	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W	R1148	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R573	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W	R1150	1-216-037-00	METAL GLAZE	330 5% 1/10W
R574	1-216-689-11	METAL GLAZE	39K 5% 1/10W	R1151	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R575	1-249-383-11	CARBON	1.5 5% 1/4W F	R1155	1-216-133-00	METAL GLAZE	3.3M 5% 1/10W
R576	1-216-101-00	METAL GLAZE	150K 5% 1/10W	R1161	1-218-776-11	METAL CHIP	1M 0.50% 1/10W
R578	1-208-824-11	METAL CHIP	56K 0.50% 1/10W	R1162	1-218-768-11	METAL CHIP	470K 0.50% 1/10W
R580	1-216-105-91	METAL GLAZE	220K 5% 1/10W	R1163	1-216-033-00	METAL GLAZE	220 5% 1/10W
R582	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R1164	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R583	1-216-039-00	METAL GLAZE	390 5% 1/10W	R1165	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R584	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W	R1167	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R585	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1168	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R586	1-208-817-11	METAL CHIP	30K 0.50% 1/10W	R1169	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R587	1-208-806-11	METAL CHIP	10K 0.50% 1/10W	R1170	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R588	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R1171	1-216-085-00	METAL GLAZE	33K 5% 1/10W
R589	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R1172	1-216-085-00	METAL GLAZE	33K 5% 1/10W
R590	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1173	1-216-295-91	CONDUCTOR, CHIP	
R591	1-208-814-11	METAL CHIP	22K 0.50% 1/10W	R1177	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R592	1-247-688-11	CARBON	10 5% 1/4W F	R1179	1-216-041-00	METAL GLAZE	470 5% 1/10W
R593	1-216-647-11	METAL CHIP	680 0.50% 1/10W	R1180	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R594	1-260-104-91	CARBON	2.7K 5% 1/2W	R1182	1-216-131-11	METAL GLAZE	2.7M 5% 1/10W
R595	1-216-689-11	METAL GLAZE	39K 5% 1/10W	R1183	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R596	1-214-754-00	METAL	11K 1% 1/4W	R1184	1-216-131-11	METAL GLAZE	2.7M 5% 1/10W
R597	1-249-417-11	CARBON	1K 5% 1/4W F	R1185	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R598	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R1186	1-216-131-11	METAL GLAZE	2.7M 5% 1/10W
R599	1-216-645-11	METAL CHIP	560 0.50% 1/10W	R1187	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R1103	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R1188	1-216-131-11	METAL GLAZE	2.7M 5% 1/10W
R1104	1-216-699-11	METAL CHIP	100K 0.50% 1/10W	R1189	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R1105	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1190	1-216-131-11	METAL GLAZE	2.7M 5% 1/10W
R1106	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1191	1-216-071-00	METAL GLAZE	2.7K 5% 1/10W
R1107	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W	R1192	1-216-131-11	METAL GLAZE	2.7M 5% 1/10W
R1108	1-208-812-11	METAL CHIP	18K 0.50% 1/10W	R1193	1-216-025-91	METAL GLAZE	100 5% 1/10W
R1111	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R1194	1-216-085-00	METAL GLAZE	33K 5% 1/10W
R1112	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R1195	1-216-025-91	METAL GLAZE	100 5% 1/10W
R1113	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1196	1-216-085-00	METAL GLAZE	33K 5% 1/10W
R1114	1-216-049-91	METAL GLAZE	1K 5% 1/10W	R1197	1-216-025-91	METAL GLAZE	100 5% 1/10W
R1115	1-216-049-91	METAL GLAZE	1K 5% 1/10W	R1198	1-216-085-00	METAL GLAZE	33K 5% 1/10W
R1116	1-216-677-11	METAL CHIP	12K 0.50% 1/10W	R1304	1-216-689-11	METAL GLAZE	39K 5% 1/10W
R1117	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	R1305	1-216-033-00	METAL GLAZE	220 5% 1/10W
R1118	1-216-113-00	METAL GLAZE	470K 5% 1/10W				


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
REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R1306	1-216-645-11	METAL CHIP	560 0.50% 1/10W	R1375	1-216-645-11	METAL CHIP	560 0.50% 1/10W
R1307	1-216-091-00	METAL GLAZE	56K 5% 1/10W	R1376	1-216-647-11	METAL CHIP	680 0.50% 1/10W
R1308	1-216-645-11	METAL CHIP	560 0.50% 1/10W	R1377	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R1309	1-216-025-91	METAL GLAZE	100 5% 1/10W	R1378	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1311	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R1379	1-216-037-00	METAL GLAZE	330 5% 1/10W
R1312	1-216-023-00	METAL GLAZE	82 5% 1/10W	R1380	1-216-645-11	METAL CHIP	560 0.50% 1/10W
R1313	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1381	1-216-647-11	METAL CHIP	680 0.50% 1/10W
R1314	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1382	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1316	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R1383	1-208-812-11	METAL CHIP	18K 0.50% 1/10W
R1317	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1384	1-216-091-00	METAL GLAZE	56K 5% 1/10W
R1319	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R1385	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1320	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R1386	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R1321	1-216-649-11	METAL CHIP	820 0.50% 1/10W	R1387	1-208-784-11	METAL CHIP	1.2K 0.50% 1/10W
R1322	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R1388	1-216-689-11	METAL CHIP	39K 0.50% 1/10W
R1324	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R1389	1-216-657-11	METAL CHIP	1.8K 0.50% 1/10W
R1325	1-216-652-11	METAL CHIP	1.1K 0.50% 1/10W	R1390	1-216-647-11	METAL CHIP	680 0.50% 1/10W
R1326	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1391	1-216-025-91	METAL GLAZE	100 5% 1/10W
R1327	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1392	1-216-041-00	METAL GLAZE	470 5% 1/10W
R1328	1-216-125-00	METAL GLAZE	1.5M 5% 1/10W	R1393	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W
R1329	1-216-103-91	METAL GLAZE	180K 5% 1/10W	R1394	1-216-041-00	METAL GLAZE	470 5% 1/10W
R1330	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1395	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R1331	1-208-810-11	METAL CHIP	15K 0.50% 1/10W	R1396	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R1332	1-216-671-11	METAL CHIP	6.8K 0.50% 1/10W	R1397	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1333	1-216-049-91	METAL GLAZE	1K 5% 1/10W	R1399	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1334	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	R1401	1-216-085-00	METAL GLAZE	33K 5% 1/10W
R1335	1-249-401-11	CARBON	47 5% 1/4W F	R1402	1-216-295-91	CONDUCTOR, CHIP	
R1336	1-216-095-00	METAL GLAZE	82K 5% 1/10W	R1403	1-216-651-11	METAL CHIP	1K 0.50% 1/10W
R1337	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R1404	1-208-812-11	METAL CHIP	18K 0.50% 1/10W
R1338	1-216-647-11	METAL CHIP	680 0.50% 1/10W	R1405	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R1339	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1406	1-208-784-11	METAL CHIP	1.2K 0.50% 1/10W
R1340	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1407	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R1341	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1408	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R1342	1-216-083-00	METAL GLAZE	27K 5% 1/10W	R1409	1-216-295-91	CONDUCTOR, CHIP	
R1343	1-216-037-00	METAL GLAZE	330 5% 1/10W	R1410	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R1344	1-216-093-00	METAL GLAZE	68K 5% 1/10W	R1411	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1345	1-216-109-00	METAL GLAZE	330K 5% 1/10W	R1412	1-216-107-00	METAL GLAZE	270K 5% 1/10W
R1346	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1413	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R1347	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1414	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R1348	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W	R1415	1-216-093-00	METAL GLAZE	68K 5% 1/10W
R1349	1-216-035-00	METAL GLAZE	270 5% 1/10W	R1416	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R1350	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1417	1-216-033-00	METAL GLAZE	220 5% 1/10W
R1351	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1418	1-216-033-00	METAL GLAZE	220 5% 1/10W
R1353	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R1419	1-216-025-91	METAL GLAZE	100 5% 1/10W
R1354	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R1420	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R1355	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1421	1-216-649-11	METAL CHIP	820 0.50% 1/10W
R1356	1-216-105-91	METAL GLAZE	220K 5% 1/10W	R1422	1-216-085-00	METAL GLAZE	33K 5% 1/10W
R1357	1-216-101-00	METAL GLAZE	150K 5% 1/10W	R1423	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R1358	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W	R1424	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R1359	1-216-099-00	METAL GLAZE	120K 5% 1/10W	R1425	1-216-013-00	METAL GLAZE	33 5% 1/10W
R1360	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R1426	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R1361	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R1427	1-208-812-11	METAL CHIP	18K 0.50% 1/10W
R1362	1-216-676-11	METAL CHIP	11K 0.50% 1/10W	R1428	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R1363	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R1429	1-208-799-11	METAL CHIP	5.1K 0.50% 1/10W
R1364	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1430	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1365	1-216-131-11	METAL GLAZE	2.7M 5% 1/10W	R1431	1-216-129-00	METAL GLAZE	2.2M 5% 1/10W
R1366	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1432	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R1367	1-216-660-11	METAL CHIP	2.4K 0.50% 1/10W	R1433	1-216-085-00	METAL GLAZE	33K 5% 1/10W
R1368	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W	R1434	1-216-645-11	METAL CHIP	560 0.50% 1/10W
R1369	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W	R1435	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R1370	1-216-105-91	METAL GLAZE	220K 5% 1/10W	R1436	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1371	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R1437	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R1372	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R1438	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1373	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	R1439	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
R1374	1-216-101-00	METAL GLAZE	150K 5% 1/10W				



PVM-1353MD/1453MD

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- The components identified by  in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R1440	1-216-041-00	METAL GLAZE	470 5% 1/10W	R1507	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1441	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1508	1-216-689-11	METAL GLAZE	39K 5% 1/10W
R1442	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1509	1-216-093-00	METAL GLAZE	68K 5% 1/10W
R1443	1-216-013-00	METAL GLAZE	33 5% 1/10W	R1510	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R1444	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R1511	1-216-360-11	METAL OXIDE	8.2 5% 1W F
R1445	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W	R1512	1-216-647-11	METAL CHIP	680 0.50% 1/10W
R1446	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W	R1513	1-247-752-11	CARBON	1K 5% 1/2W F
R1447	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1514	1-247-711-11	CARBON	680 5% 1/4W F
R1448	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R1515	1-216-350-11	METAL OXIDE	1.2 5% 1W F
R1449	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R1516	1-216-101-00	METAL GLAZE	150K 5% 1/10W
R1450	1-216-129-00	METAL GLAZE	2.2M 5% 1/10W	R1518	1-215-867-00	METAL OXIDE	470 5% 1W F
R1451	1-216-093-00	METAL GLAZE	68K 5% 1/10W	R1519	1-216-355-11	METAL OXIDE	3.3 5% 1W F
R1452	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R1520	1-216-027-00	METAL GLAZE	120 5% 1/10W
R1453	1-216-013-00	METAL GLAZE	33 5% 1/10W	R1521	1-216-029-00	METAL GLAZE	150 5% 1/10W
R1454	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R1522	1-249-400-11	CARBON	39 5% 1/4W F
R1455	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R1523	1-216-350-11	METAL OXIDE	1.2 5% 1W F
R1456	1-216-129-00	METAL GLAZE	2.2M 5% 1/10W	R1524	1-216-427-00	METAL OXIDE	120 5% 1W F
R1457	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R1525	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R1458	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R1526	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R1459	1-216-133-00	METAL GLAZE	3.3M 5% 1/10W	R1527	1-249-413-11	CARBON	470 5% 1/4W F
R1460	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1528	1-215-869-11	METAL OXIDE	1K 5% 1W F
R1461	1-216-645-11	METAL CHIP	560 0.50% 1/10W	R1529	1-202-829-11	SOLID	8.2K 20% 1/2W
R1462	1-216-645-11	METAL CHIP	560 0.50% 1/10W	R1530	1-216-115-00	METAL GLAZE	560K 5% 1/10W
R1463	1-216-645-11	METAL CHIP	560 0.50% 1/10W	R1531	1-247-697-11	CARBON	56 5% 1/4W F
R1464	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R1532	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
R1465	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1533	1-249-414-11	CARBON	560 5% 1/4W F
R1466	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W	R1534	1-216-659-11	METAL CHIP	2.2K 0.50% 1/10W
R1467	1-216-073-00	METAL GLAZE	10K 5% 1/10W	 R1535A			
R1468	1-216-091-00	METAL GLAZE	56K 5% 1/10W	 R1536A			
R1469	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R1537	1-249-389-11	CARBON	4.7 5% 1/4W F
R1470	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R1538	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1471	1-216-049-91	METAL GLAZE	1K 5% 1/10W	R1539	1-216-689-11	METAL GLAZE	39K 5% 1/10W
R1472	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R1540	1-216-105-91	METAL GLAZE	220K 5% 1/10W
R1473	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1541	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R1474	1-216-687-11	METAL CHIP	33K 0.50% 1/10W	R1542	1-216-111-00	METAL GLAZE	390K 5% 1/10W
R1475	1-216-677-11	METAL CHIP	12K 0.50% 1/10W	R1543	1-216-027-00	METAL GLAZE	120 5% 1/10W
R1476	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	R1544	1-216-117-00	METAL GLAZE	680K 5% 1/10W
R1477	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R1545	1-216-101-00	METAL GLAZE	150K 5% 1/10W
R1478	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R1547	1-216-393-00	METAL OXIDE	2.2 5% 3W F
R1480	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R1548	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R1481	1-216-115-00	METAL GLAZE	560K 5% 1/10W	R1549	1-260-094-11	CARBON	390 5% 1/2W
R1482	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R1550	1-216-105-91	METAL GLAZE	220K 5% 1/10W
R1483	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R1551	1-249-393-11	CARBON	10 5% 1/4W F
R1484	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1552	1-216-091-00	METAL GLAZE	56K 5% 1/10W
R1485	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R1553	1-216-091-00	METAL GLAZE	56K 5% 1/10W
R1486	1-216-121-00	METAL GLAZE	1M 5% 1/10W	R1554	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
R1487	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R1555	1-216-295-91	CONDCTOR, CHIP	
R1488	1-216-083-00	METAL GLAZE	27K 5% 1/10W	R1556	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R1489	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	R1557	1-218-760-11	METAL CHIP	220K 0.50% 1/10W
R1490	1-216-035-00	METAL GLAZE	270 5% 1/10W	R1558	1-249-393-11	CARBON	10 5% 1/4W F
R1491	1-216-035-00	METAL GLAZE	270 5% 1/10W	R1559	1-249-393-11	CARBON	10 5% 1/4W F
R1492	1-216-035-00	METAL GLAZE	270 5% 1/10W	R1560	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R1493	1-216-083-00	METAL GLAZE	27K 5% 1/10W	R1561	1-208-812-11	METAL CHIP	18K 0.50% 1/10W
R1494	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1562	1-214-964-00	METAL	1M 1% 1/4W
R1495	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R1563	1-214-964-00	METAL	1M 1% 1/4W
R1498	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R1564	1-208-812-11	METAL CHIP	18K 0.50% 1/10W
R1499	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R1567	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R1500	1-216-647-11	METAL CHIP	680 0.50% 1/10W	R1568	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R1501	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W	R1569	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1502	1-260-105-11	CARBON	3.3K 5% 1/2W	R1570	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1503	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	R1571	1-216-103-91	METAL GLAZE	180K 5% 1/10W
R1504	1-208-817-11	METAL CHIP	30K 0.50% 1/10W	R1572	1-216-101-00	METAL GLAZE	150K 5% 1/10W
R1505	1-247-688-11	CARBON	10 5% 1/4W F	R1573	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1506	1-216-037-00	METAL GLAZE	330 5% 1/10W				

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R1574	1-216-041-00	METAL GLAZE	470 5% 1/10W	R2362	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R1575	1-216-025-91	METAL GLAZE	100 5% 1/10W	R2363	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1576	1-216-025-91	METAL GLAZE	100 5% 1/10W	R2364	1-216-025-91	METAL GLAZE	100 5% 1/10W
R1577	1-216-025-91	METAL GLAZE	100 5% 1/10W	R2365	1-216-687-11	METAL CHIP	33K 0.50% 1/10W
R1578	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R2366	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R1579	1-216-690-11	METAL CHIP	43K 0.50% 1/10W	R2367	1-216-099-00	METAL GLAZE	120K 5% 1/10W
R2300	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R2368	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R2301	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R2369	1-216-095-00	METAL GLAZE	82K 5% 1/10W
R2302	1-216-671-11	METAL CHIP	6.8K 0.50% 1/10W	R2371	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R2303	1-216-093-00	METAL GLAZE	68K 5% 1/10W	R2372	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R2304	1-216-105-91	METAL GLAZE	220K 5% 1/10W	R2374	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R2305	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R2375	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R2306	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R2376	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R2307	1-216-033-00	METAL GLAZE	220 5% 1/10W	R2377	1-216-033-00	METAL GLAZE	220 5% 1/10W
R2308	1-216-103-91	METAL GLAZE	180K 5% 1/10W	R2378	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R2309	1-216-049-91	METAL GLAZE	1K 5% 1/10W	R2379	1-216-033-00	METAL GLAZE	220 5% 1/10W
R2310	1-216-095-00	METAL GLAZE	82K 5% 1/10W	R2380	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R2311	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R2381	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R2312	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R2382	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R2313	1-216-049-91	METAL GLAZE	1K 5% 1/10W	R2383	1-216-033-00	METAL GLAZE	220 5% 1/10W
R2314	1-216-645-11	METAL CHIP	560 0.50% 1/10W	R2384	1-216-689-11	METAL GLAZE	39K 5% 1/10W
R2315	1-208-810-11	METAL CHIP	15K 0.50% 1/10W	R2385	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R2316	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R2386	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R2317	1-216-049-91	METAL GLAZE	1K 5% 1/10W	R2387	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R2318	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	R2389	1-216-033-00	METAL GLAZE	220 5% 1/10W
R2319	1-216-093-00	METAL GLAZE	68K 5% 1/10W	R2390	1-216-647-11	METAL CHIP	680 0.50% 1/10W
R2320	1-216-677-11	METAL CHIP	12K 0.50% 1/10W	R2391	1-216-647-11	METAL CHIP	680 0.50% 1/10W
R2321	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R2392	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R2322	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R2393	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R2323	1-208-814-11	METAL CHIP	22K 0.50% 1/10W	R2394	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R2324	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R2396	1-216-041-00	METAL GLAZE	470 5% 1/10W
R2325	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	R2397	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R2326	1-216-041-00	METAL GLAZE	470 5% 1/10W	R2398	1-216-109-00	METAL GLAZE	330K 5% 1/10W
R2327	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W	R2399	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R2328	1-216-049-91	METAL GLAZE	1K 5% 1/10W	R2501	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R2329	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W	R2502	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R2330	1-216-049-91	METAL GLAZE	1K 5% 1/10W	R2551	1-216-091-00	METAL GLAZE	56K 5% 1/10W
R2331	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W	R2552	1-216-085-00	METAL GLAZE	33K 5% 1/10W
R2332	1-216-049-91	METAL GLAZE	1K 5% 1/10W	R2553	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R2333	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R2555	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R2334	1-216-041-00	METAL GLAZE	470 5% 1/10W	R2556	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W
R2335	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R2557	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R2336	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R2558	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R2337	1-216-037-00	METAL GLAZE	330 5% 1/10W	R2559	1-216-039-00	METAL GLAZE	390 5% 1/10W
R2338	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R2560	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R2339	1-216-037-00	METAL GLAZE	330 5% 1/10W	R2561	1-216-001-00	METAL GLAZE	10 5% 1/10W
R2341	1-216-037-00	METAL GLAZE	330 5% 1/10W	R2562	1-216-001-00	METAL GLAZE	10 5% 1/10W
R2342	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W	R2563	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R2343	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R3001	1-249-393-11	CARBON	10 5% 1/4W F
R2344	1-216-121-00	METAL GLAZE	1M 5% 1/10W	R3301	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R2345	1-208-812-11	METAL CHIP	18K 0.50% 1/10W	R3302	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R2346	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R3303	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R2347	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R3304	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R2348	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R3305	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R2349	1-208-810-11	METAL CHIP	15K 0.50% 1/10W	R3306	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W
R2350	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R3307	1-216-091-00	METAL GLAZE	56K 5% 1/10W
R2351	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R3308	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R2352	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R3309	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R2353	1-216-041-00	METAL GLAZE	470 5% 1/10W	R3310	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R2354	1-216-025-91	METAL GLAZE	100 5% 1/10W	R3311	1-216-091-00	METAL GLAZE	56K 5% 1/10W
R2356	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R3312	1-216-105-91	METAL GLAZE	220K 5% 1/10W
R2357	1-216-091-00	METAL GLAZE	56K 5% 1/10W	R3320	1-216-085-00	METAL GLAZE	33K 5% 1/10W
R2358	1-216-025-91	METAL GLAZE	100 5% 1/10W	R3333	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R2361	1-216-099-00	METAL GLAZE	120K 5% 1/10W				

PVM-1353MD/1453MD

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The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque **A** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R3334	1-216-073-00	METAL GLAZE	10K 5% 1/10W			<VARIABLE RESISTOR>	
R3335	1-216-113-00	METAL GLAZE	470K 5% 1/10W	RV501	1-223-102-00	RES, ADJ, WIREWOUND 120	
R3337	1-216-099-00	METAL GLAZE	120K 5% 1/10W			<TRANSFORMER>	
R3338	1-216-103-91	METAL GLAZE	180K 5% 1/10W	T500	1-426-668-11	TRANSFORMER, FERRITE (HDT)	
R3341	1-216-690-11	METAL CHIP	43K 0.50% 1/10W	T501 A	1-453-163-11	TRANSFORMER ASSY, FLYBACK	
R3342	1-216-095-00	METAL GLAZE	82K 5% 1/10W			<THERMISTOR>	
R3343	1-216-089-00	METAL GLAZE	47K 5% 1/10W	TH500	1-807-970-11	THERMISTOR	
R3346	1-216-025-91	METAL GLAZE	100 5% 1/10W			<CRYSTAL>	
R3347	1-216-025-91	METAL GLAZE	100 5% 1/10W	X101	1-579-175-11	VIBRATOR, CERAMIC	
R3348	1-216-025-91	METAL GLAZE	100 5% 1/10W	X300	1-577-259-11	VIBRATOR, CRYSTAL	
R3349	1-216-025-91	METAL GLAZE	100 5% 1/10W	X301	1-527-722-00	OSCILLATOR, CRYSTAL	
R3350	1-216-113-00	METAL GLAZE	470K 5% 1/10W			*****	
R3355	1-216-089-00	METAL GLAZE	47K 5% 1/10W			*A-1304-032-A	M BOARD, COMPLETE
R3356	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W			*****	
R3357	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W			1-540-044-11	SOCKET, IC
R3358	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W			<CAPACITOR>	
R3359	1-216-081-00	METAL GLAZE	22K 5% 1/10W	C1200	1-124-472-11	ELECT 470MF	20% 10V
R3360	1-216-073-00	METAL GLAZE	10K 5% 1/10W	C1201	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
R3361	1-216-089-00	METAL GLAZE	47K 5% 1/10W	C1202	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
R3362	1-216-049-91	METAL GLAZE	1K 5% 1/10W	C1203	1-163-103-00	CERAMIC CHIP 27PF	5% 50V
R3363	1-216-049-91	METAL GLAZE	1K 5% 1/10W	C1204	1-163-103-00	CERAMIC CHIP 27PF	5% 50V
R3364	1-216-073-00	METAL GLAZE	10K 5% 1/10W	C1205	1-164-346-11	CERAMIC CHIP 1MF	16V
R3376	1-216-081-00	METAL GLAZE	22K 5% 1/10W	C1208	1-164-346-11	CERAMIC CHIP 1MF	16V
R3378	1-216-115-00	METAL GLAZE	560K 5% 1/10W	C1210	1-126-101-11	ELECT 100MF	20% 16V
R3381	1-216-041-00	METAL GLAZE	470 5% 1/10W	C1211	1-164-346-11	CERAMIC CHIP 1MF	16V
R3382	1-216-645-11	METAL CHIP	560 0.50% 1/10W	C1212	1-163-109-00	CERAMIC CHIP 47PF	5% 50V
R3383	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	C1213	1-126-301-11	ELECT 1MF	20% 50V
R3384	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	C1214	1-126-301-11	ELECT 1MF	20% 50V
R3385	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	C1215	1-126-301-11	ELECT 1MF	20% 50V
R3386	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	C1216	1-126-301-11	ELECT 1MF	20% 50V
R3390	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W			<CONNECTOR>	
R3394	1-216-089-00	METAL GLAZE	47K 5% 1/10W	CN1201*	1-565-488-11	CONNECTOR, BOARD TO BOARD 12P	
R3395	1-216-049-91	METAL GLAZE	1K 5% 1/10W	CN1202*	1-564-518-11	PLUG, CONNECTOR 3P	
R3396	1-216-041-00	METAL GLAZE	470 5% 1/10W			<DIODE>	
R3397	1-216-041-00	METAL GLAZE	470 5% 1/10W	D1200	8-719-801-78	DIODE 1SS184	
R3398	1-216-101-00	METAL GLAZE	150K 5% 1/10W			<IC>	
R3399	1-216-025-91	METAL GLAZE	100 5% 1/10W	IC1200	8-759-708-05	IC NJM78L05A	
R3400	1-216-091-00	METAL GLAZE	56K 5% 1/10W	IC1201	8-759-284-18	IC UPD78P014YCW	
R3401	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	IC1202	8-759-280-74	IC ST24C02CB1	
R3402	1-216-092-00	METAL GLAZE	62K 5% 1/10W	IC1203	8-759-149-05	IC UPD71051GB-10-3B4	
R3403	1-216-025-91	METAL GLAZE	100 5% 1/10W	IC1204	8-759-335-70	IC ADM232LAR-REEL	
R3404	1-216-073-00	METAL GLAZE	10K 5% 1/10W	IC1205	8-759-042-02	IC S-80743AL-A7-S	
R3405	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W			<TRANSISTOR>	
R3406	1-216-073-00	METAL GLAZE	10K 5% 1/10W	Q1200	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
R3407	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W				
R3408	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
R3409	1-216-025-91	METAL GLAZE	100 5% 1/10W				
R3410	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
R4401	1-216-085-00	METAL GLAZE	33K 5% 1/10W				
R4402	1-216-113-00	METAL GLAZE	470K 5% 1/10W				
R4404	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
R4405	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W				
R4407	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W				
R4408	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W				
R4409	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W				
R4410	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W				
R4411	1-216-113-00	METAL GLAZE	470K 5% 1/10W				
R4412	1-216-113-00	METAL GLAZE	470K 5% 1/10W				
R4413	1-216-295-91	CONDCTOR, CHIP					
R4414	1-216-295-91	CONDCTOR, CHIP					
R4415	1-216-295-91	CONDCTOR, CHIP					
R4416	1-216-295-91	CONDCTOR, CHIP					

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M G

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<RESISTOR>				C628	1-102-038-00	CERAMIC	0.001MF
R1200	1-260-313-51	CARBON	56 5% 1/2W	C629	1-124-922-11	ELECT	1000MF 20% 50V
R1201	1-216-073-00	METAL GLAZE	10K 5% 1/10W	C630	1-124-907-11	ELECT	10MF 20% 50V
R1202	1-216-295-91	CONDCTOR, CHIP		C631	1-136-853-11	FILM	0.56MF 5% 200V
R1203	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	C632	1-124-562-11	ELECT	47MF 20% 160V
R1204	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	C633	1-124-122-11	ELECT	100MF 20% 50V
R1205	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	C634	1-124-911-11	ELECT	220MF 20% 50V
R1206	1-216-295-91	CONDCTOR, CHIP		C636	1-124-910-11	ELECT	47MF 20% 50V
R1207	1-216-295-91	CONDCTOR, CHIP		C1602	1-137-484-11	FILM	0.47MF 10% 630V
R1210	1-216-025-91	METAL GLAZE	100 5% 1/10W	<CONNECTOR>			
R1211	1-216-025-91	METAL GLAZE	100 5% 1/10W	CN601	1-691-960-11	PIN, CONNECTOR (PC BOARD)	3P
R1213	1-216-025-91	METAL GLAZE	100 5% 1/10W	CN602	*1-695-561-11	PIN, CONNECTOR (PC BOARD)	7P
R1214	1-216-025-91	METAL GLAZE	100 5% 1/10W	CN603	*1-508-765-00	PIN, CONNECTOR (5MM PITCH)	3P
R1215	1-216-025-91	METAL GLAZE	100 5% 1/10W	CN604	*1-564-506-11	PLUG, CONNECTOR	3P
R1216	1-216-089-00	METAL GLAZE	47K 5% 1/10W	CN605	*1-573-964-11	PIN, CONNECTOR (PC BOARD)	6P
R1217	1-216-089-00	METAL GLAZE	47K 5% 1/10W	CN606	*1-564-508-11	PLUG, CONNECTOR	5P
R1218	1-216-089-00	METAL GLAZE	47K 5% 1/10W	<DIODE>			
R1220	1-216-025-91	METAL GLAZE	100 5% 1/10W	D601	Δ 8-719-032-39	DIODE DSA3A4-F3	
<SWITCH>				D602	Δ 8-719-032-39	DIODE DSA3A4-F3	
S1200	1-570-623-11	SWITCH, DIP		D603	Δ 8-719-032-39	DIODE DSA3A4-F3	
<CRYSTAL>				D604	Δ 8-719-032-39	DIODE DSA3A4-F3	
X1201	1-577-619-11	VIBRATOR, CRYSTAL		D605	8-719-971-65	DIODE RGP15J-6040	
*****				D606	8-719-300-33	DIODE RU-3AM	
*A-1316-215-A	G BOARD, COMPLETE (PVM-1453MD)			D607	8-719-300-33	DIODE RU-3AM	
	*****			D608	8-719-911-19	DIODE 1SS119-25	
*A-1316-216-A	G BOARD, COMPLETE (PVM-1353MD)			D609	8-719-300-33	DIODE RU-3AM	
	*****			D610	8-719-300-33	DIODE RU-3AM	
<CAPACITOR>				D612	8-719-045-48	DIODE FML-G12S	
C602	Δ 1-136-360-51	FILM	0.22MF 20% 250V	D613	8-719-971-65	DIODE RGP15J-6040	
C603	Δ 1-136-360-51	FILM	0.22MF 20% 250V	D614	8-719-045-48	DIODE FML-G12S	
C604	Δ 1-161-741-21	CERAMIC	0.001MF 10% 400V	D615	8-719-971-65	DIODE RGP15J-6040	
C605	Δ 1-161-741-21	CERAMIC	0.001MF 10% 400V	D616	8-719-300-33	DIODE RU-3AM	
C606	Δ 1-161-741-21	CERAMIC	0.001MF 10% 400V	D617	8-719-110-46	DIODE RD16ESB3	
C607	Δ 1-161-741-21	CERAMIC	0.001MF 10% 400V	<FUSE>			
C608	Δ 1-161-953-71	CERAMIC	0.0047MF 20% 400V	F603	Δ 1-532-742-11	FUSE, GLASS TUBE	1.6A/125V
C609	Δ 1-161-953-71	CERAMIC	0.0047MF 20% 400V		1-533-189-11	HOLDER, FUSE	
C610	Δ 1-161-953-71	CERAMIC	0.0047MF 20% 400V	F604	Δ 1-532-742-11	FUSE, GLASS TUBE	1.6A/125V
C611	Δ 1-161-953-71	CERAMIC	0.0047MF 20% 400V		1-533-189-11	HOLDER, FUSE	
C612	Δ 1-137-484-61	FILM	0.47MF 10% 630V	<FERRITE BEAD>			
C613	1-137-484-11	FILM	0.47MF 10% 630V	FB601	1-410-396-41	FERRITE BEAD INDUCTOR	0.45UH
C614	1-129-720-00	FILM	0.033MF 10% 630V	FB602	1-410-396-41	FERRITE BEAD INDUCTOR	0.45UH
C615	1-136-619-11	FILM	0.0016MF 3% 2KV	FB603	1-410-396-41	FERRITE BEAD INDUCTOR	0.45UH
C616	1-124-910-11	ELECT	47MF 20% 35V	FB604	1-410-396-41	FERRITE BEAD INDUCTOR	0.45UH
C617	1-136-557-11	FILM	0.0033MF 10% 630V	FB605	1-410-396-41	FERRITE BEAD INDUCTOR	0.45UH
C618	1-126-096-11	ELECT	10MF 20% 25V	<IC>			
C619	1-124-911-11	ELECT	220MF 20% 50V	IC601	8-749-924-69	IC STR-M6523	
C620	1-161-754-00	CERAMIC	0.001MF 10% 2KV		4-382-854-11	SCREW (M3X10), P, SW (+); IC601	
C621	1-125-494-11	ELECT (BLOCK)	560MF 20% 160V	IC602	8-749-010-47	IC STR-S3115	
C622	1-102-038-00	CERAMIC	0.001MF		4-382-854-11	SCREW (M3X10), P, SW (+); IC602	
C623	1-126-944-11	ELECT	3300MF 20% 25V	IC603	8-759-701-56	IC NJM78M05FA	
C624	1-102-038-00	CERAMIC	0.001MF		4-382-854-11	SCREW (M3X10), P, SW (+); IC603	
C625	1-124-557-11	ELECT	1000MF 20% 25V	IC604	8-759-231-53	IC TA7805S	
C626	1-102-038-00	CERAMIC	0.001MF		4-382-854-11	SCREW (M3X10), P, SW (+); IC604	
C627	1-124-922-11	ELECT	1000MF 20% 50V				

PVM-1353MD/1453MD



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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<JUMPER>				THP601 Δ 1-808-059-32 THERMISTOR, POSITIVE			
JW609	1-410-679-31	INDUCTOR 270UH (PVM-1353MD)		<VARISTOR>			
<COIL>				VDR601 Δ 1-809-942-71 VARISTOR			
L601	1-411-215-11	COIL, CHOKE 200UH		*****			
L1601	1-410-679-31	INDUCTOR 270UH (PVM-1453MD)		*A-1331-299-A C BOARD, COMPLETE			
L1602	1-421-421-00	COIL, CHOKE		*****			
<PHOTO COUPLER>				*4-374-912-01 COVER (MAIN), CV VOL			
PH601	8-749-923-50	PHOTO COUPLER PC111YS		*4-374-913-01 COVER (REAR LID), CV VOL			
<TRANSISTOR>				<CAPACITOR>			
Q601	8-729-140-96	TRANSISTOR 2SD774-34		C701	1-102-157-00	CERAMIC 560PF 10% 500V	
Q603	8-729-303-61	TRANSISTOR 2SC3851-G		C702	1-102-157-00	CERAMIC 560PF 10% 500V	
	4-382-854-11	SCREW (M3X10), P. SW (+); Q603		C703	1-102-157-00	CERAMIC 560PF 10% 500V	
<RESISTOR>				C704	1-102-121-00	CERAMIC 0.0022MF 10% 50V	
R601 Δ	1-202-885-91	SOLID 1M 20% 1/2W		C705	1-126-101-11	ELECT 100MF 20% 16V	
R602	1-216-489-11	METAL OXIDE 27K 5% 3W F		C706	1-102-074-00	CERAMIC 0.001MF 10% 50V	
R603	1-216-491-11	METAL OXIDE 56K 5% 3W F		C707	1-162-116-00	CERAMIC 680PF 10% 2KV	
R604	1-249-418-11	CARBON 1.2K 5% 1/4W		C708	1-136-601-11	FILM 0.01MF 5% 630V	
R605	1-249-415-11	CARBON 680 5% 1/4W		C710	1-101-880-00	CERAMIC 47PF 5% 50V	
R606	1-207-642-00	WIREWOUND 0.15 10% 3W F		C711	1-101-880-00	CERAMIC 47PF 5% 50V	
R607	1-249-423-11	CARBON 3.3K 5% 1/4W		C712	1-101-880-00	CERAMIC 47PF 5% 50V	
R608	1-249-426-11	CARBON 5.6K 5% 1/4W		C713	1-123-946-00	ELECT 4.7MF 20% 250V	
R609	1-249-426-11	CARBON 5.6K 5% 1/4W		C714	1-102-976-00	CERAMIC 180PF 5% 50V	
R610	1-249-421-11	CARBON 2.2K 5% 1/4W		C715	1-102-976-00	CERAMIC 180PF 5% 50V	
R611	1-249-417-11	CARBON 1K 5% 1/4W		C716	1-102-976-00	CERAMIC 180PF 5% 50V	
R612	1-249-404-00	CARBON 82 5% 1/4W		C717	1-107-372-11	MYLAR 0.22MF 10% 200V	
R613	1-249-419-11	CARBON 1.5K 5% 1/4W		C718	1-107-372-11	MYLAR 0.22MF 10% 200V	
R614	1-249-385-11	CARBON 2.2 5% 1/4W F		C720	1-108-700-11	MYLAR 0.047MF 10% 200V	
R615	1-218-265-11	METAL 8.2M 5% 1W		C734	1-102-973-00	CERAMIC 100PF 5% 50V	
R616	1-216-341-11	METAL OXIDE 0.22 5% 1W F		C735	1-102-816-00	CERAMIC 120PF 5% 50V	
R617	1-216-341-11	METAL OXIDE 0.22 5% 1W F		C736	1-102-816-00	CERAMIC 120PF 5% 50V	
R618	1-249-443-11	CARBON 0.47 5% 1/4W F		<CONNECTOR>			
R619	1-216-341-11	METAL OXIDE 0.22 5% 1W F		CN701	*1-564-511-11	PLUG, CONNECTOR 8P	
R620	1-249-443-11	CARBON 0.47 5% 1/4W F		CN702	*1-573-964-11	PIN, CONNECTOR (PC BOARD) 6P	
R621	1-215-877-11	METAL OXIDE 22K 5% 1W F		CN703	*1-691-134-11	PIN, CONNECTOR (PC BOARD) 2P	
R622	1-247-700-11	CARBON 100 5% 1/4W		<DIODE>			
R623	1-249-417-11	CARBON 1K 5% 1/4W		D701	8-719-911-19	DIODE 1SS119-25	
R624	1-216-341-11	METAL OXIDE 0.22 5% 1W F		D702	8-719-911-19	DIODE 1SS119-25	
R625	1-216-341-11	METAL OXIDE 0.22 5% 1W F		D703	8-719-911-19	DIODE 1SS119-25	
R626	1-247-895-00	CARBON 470K 5% 1/4W		D704	8-719-911-19	DIODE 1SS119-25	
R631	1-247-807-31	CARBON 100 5% 1/4W		D705	8-719-911-19	DIODE 1SS119-25	
R1602	1-215-869-11	METAL OXIDE 1K 5% 1W F		D706	8-719-911-19	DIODE 1SS119-25	
R1603	1-202-846-00	SOLID 470K 20% 1/2W		D707	8-719-901-83	DIODE 1SS83	
<RELAY>				D708	8-719-901-83	DIODE 1SS83	
RY601 Δ	1-515-738-11	RELAY		D709	8-719-901-83	DIODE 1SS83	
<TRANSFORMER>				D713	8-719-901-83	DIODE 1SS83	
T601 Δ	1-426-716-11	TRANSFORMER, LINE FILTER (LFT)		D715	8-719-901-83	DIODE 1SS83	
T602 Δ	1-426-716-11	TRANSFORMER, LINE FILTER (LFT)		D716	8-719-901-83	DIODE 1SS83	
T603	1-427-885-11	TRANSFORMER, CONVERTER (SRT)		D717	8-719-901-83	DIODE 1SS83	
<THERMISTOR>				<JACK>			
				J701 Δ 1-526-819-11 SOCKET, PICTURE TUBE			

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C H

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<COIL>							
L701	1-410-667-31	INDUCTOR	22UH	R749	1-215-902-11	METAL OXIDE	47K 5% 2W F
L705	1-412-532-11	INDUCTOR	39UH	R750	1-249-400-11	CARBON	39 5% 1/4W F
<TRANSISTOR>				R751	1-247-887-00	CARBON	220K 5% 1/4W
Q701	8-729-119-78	TRANSISTOR	2SC2785-HFE	R752	1-247-887-00	CARBON	220K 5% 1/4W
Q702	8-729-119-78	TRANSISTOR	2SC2785-HFE	R753	1-247-887-00	CARBON	220K 5% 1/4W
Q703	8-729-119-78	TRANSISTOR	2SC2785-HFE	<VARIABLE RESISTOR>			
Q704	8-729-200-17	TRANSISTOR	2SA1091-0	RV707	1-230-641-11	RES. ADJ. METAL GLAZE	2.2M
Q705	8-729-200-17	TRANSISTOR	2SA1091-0	RV708	1-230-619-11	RES. ADJ. METAL GLAZE	110M
Q706	8-729-200-17	TRANSISTOR	2SA1091-0	RV709	1-230-641-11	RES. ADJ. METAL GLAZE	2.2M
Q707	8-729-326-11	TRANSISTOR	2SC2611	*****			
Q708	8-729-326-11	TRANSISTOR	2SC2611	*A-1372-094-A	H BOARD, COMPLETE		
Q709	8-729-326-11	TRANSISTOR	2SC2611	*****			
Q710	8-729-200-17	TRANSISTOR	2SA1091-0	*4-348-208-00	HOLDER, LED		
Q711	8-729-200-17	TRANSISTOR	2SA1091-0	<CONNECTOR>			
Q712	8-729-200-17	TRANSISTOR	2SA1091-0	CN105	*1-564-527-11	PLUG, CONNECTOR	12P
Q713	8-729-255-12	TRANSISTOR	2SC2551-0	CN106	*1-564-526-11	PLUG, CONNECTOR	11P
Q714	8-729-255-12	TRANSISTOR	2SC2551-0	<DIODE>			
Q715	8-729-119-78	TRANSISTOR	2SC2785-HFE	D2102	8-719-920-05	DIODE	SLP231C-50
Q716	8-729-119-78	TRANSISTOR	2SC2785-HFE	D2103	8-719-812-32	DIODE	TLY123
Q717	8-729-119-78	TRANSISTOR	2SC2785-HFE	D2104	8-719-901-33	DIODE	ISS133
<RESISTOR>				<RESISTOR>			
R702	1-247-903-00	CARBON	1M 5% 1/4W	R2101	1-249-419-11	CARBON	1.5K 5% 1/4W
R704	1-215-405-00	METAL	220 1% 1/4W	R2107	1-249-430-11	CARBON	12K 5% 1/4W
R705	1-215-405-00	METAL	220 1% 1/4W	R2137	1-249-414-11	CARBON	560 5% 1/4W
R706	1-215-405-00	METAL	220 1% 1/4W	R2138	1-249-414-11	CARBON	560 5% 1/4W
R707	1-249-431-11	CARBON	15K 5% 1/4W	R2139	1-249-414-11	CARBON	560 5% 1/4W
R708	1-249-431-11	CARBON	15K 5% 1/4W	R2140	1-249-414-11	CARBON	560 5% 1/4W
R709	1-249-431-11	CARBON	15K 5% 1/4W	R2141	1-249-414-11	CARBON	560 5% 1/4W
R710	1-215-391-00	METAL	56 1% 1/4W	R2142	1-249-414-11	CARBON	560 5% 1/4W
R711	1-215-394-00	METAL	75 1% 1/4W	R2143	1-249-414-11	CARBON	560 5% 1/4W
R712	1-215-392-00	METAL	62 1% 1/4W	R2144	1-249-414-11	CARBON	560 5% 1/4W
R715	1-202-818-00	SOLID	1K 20% 1/2W	R2145	1-249-414-11	CARBON	560 5% 1/4W
R716	1-216-486-00	METAL OXIDE	8.2K 5% 3W F	R2148	1-215-419-00	METAL	820 1% 1/4W
R717	1-202-818-00	SOLID	1K 20% 1/2W	R2149	1-215-414-00	METAL	510 1% 1/4W
R718	1-216-486-00	METAL OXIDE	8.2K 5% 3W F	R2150	1-215-409-00	METAL	330 1% 1/4W
R719	1-202-818-00	SOLID	1K 20% 1/2W	R2151	1-215-407-00	METAL	270 1% 1/4W
R720	1-216-486-00	METAL OXIDE	8.2K 5% 3W F	R2152	1-215-404-00	METAL	200 1% 1/4W
R722	1-202-883-11	SOLID	680K 20% 1/2W	R2153	1-215-401-11	METAL	150 1% 1/4W
R723	1-202-838-00	SOLID	100K 20% 1/2W	R2154	1-215-399-00	METAL	120 1% 1/4W
R724	1-202-842-11	SOLID	220K 20% 1/2W	R2155	1-215-397-00	METAL	100 1% 1/4W
R725	1-202-719-00	SOLID	1M 20% 1/2W	R2156	1-215-421-00	METAL	1K 1% 1/4W
R731	1-249-409-11	CARBON	220 5% 1/4W	R2157	1-215-416-00	METAL	620 1% 1/4W
R732	1-249-409-11	CARBON	220 5% 1/4W	R2158	1-215-410-00	METAL	360 1% 1/4W
R733	1-249-409-11	CARBON	220 5% 1/4W	R2159	1-215-405-00	METAL	220 1% 1/4W
R734	1-249-409-11	CARBON	220 5% 1/4W F	R2160	1-215-421-00	METAL	1K 1% 1/4W
R735	1-249-409-11	CARBON	220 5% 1/4W F	<VARIABLE RESISTOR>			
R736	1-249-409-11	CARBON	220 5% 1/4W F	RV2101	1-223-504-21	RES. VAR. CARBON	20K
R737	1-247-807-31	CARBON	100 5% 1/4W	RV2103	1-223-735-11	RES. VAR. CARBON	20K
R738	1-247-807-31	CARBON	100 5% 1/4W	RV2105	1-223-735-11	RES. VAR. CARBON	20K
R739	1-247-807-31	CARBON	100 5% 1/4W	RV2109	1-223-735-11	RES. VAR. CARBON	20K
R740	1-249-429-11	CARBON	10K 5% 1/4W F	RV2113	1-223-735-11	RES. VAR. CARBON	20K
R741	1-249-429-11	CARBON	10K 5% 1/4W F	RV2117	1-223-504-21	RES. VAR. CARBON	20K
R742	1-249-429-11	CARBON	10K 5% 1/4W F				
R744	1-249-429-11	CARBON	10K 5% 1/4W				
R745	1-249-429-11	CARBON	10K 5% 1/4W				
R746	1-215-879-11	METAL OXIDE	47K 5% 1W F				
R747	1-247-725-11	CARBON	10K 5% 1/4W F				
R748	1-249-923-11	CARBON	1K 5% 1/4W F				

PVM-1353MD/1453MD



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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<SWITCH>							
S2101	1-570-101-41	SWITCH, KEY BOARD		R812	1-249-417-11	CARBON 1K 5% 1/4W	
S2102	1-570-101-41	SWITCH, KEY BOARD		R813	1-249-417-11	CARBON 1K 5% 1/4W	
S2103	1-570-101-41	SWITCH, KEY BOARD		R815	1-249-423-11	CARBON 3.3K 5% 1/4W	
S2104	1-570-101-41	SWITCH, KEY BOARD		R816	1-249-418-11	CARBON 1.2K 5% 1/4W	
S2105	1-570-101-41	SWITCH, KEY BOARD		R817	1-249-418-11	CARBON 1.2K 5% 1/4W	
S2106	1-570-969-11	SWITCH, KEY BOARD		R818	1-249-418-11	CARBON 1.2K 5% 1/4W	
S2107	1-570-969-11	SWITCH, KEY BOARD		R819	1-249-418-11	CARBON 1.2K 5% 1/4W	
S2108	1-570-101-41	SWITCH, KEY BOARD		R820	1-249-422-11	CARBON 2.7K 5% 1/4W	
S2109	1-570-969-11	SWITCH, KEY BOARD		*****			
S2110	1-570-101-41	SWITCH, KEY BOARD		*A-1390-498-A X BOARD, COMPLETE			
S2111	1-570-101-41	SWITCH, KEY BOARD		*****			
S2113	1-570-969-11	SWITCH, KEY BOARD		<CONNECTOR>			
S2114	1-570-969-11	SWITCH, KEY BOARD		CN108 *1-564-518-11 PLUG, CONNECTOR 3P			
*****				<DIODE>			
*A-1388-166-A J BOARD, COMPLETE				D001	8-719-301-36	DIODE SEL4410E-D	
*****				D002	8-719-301-36	DIODE SEL4410E-D	
<CONNECTOR>				D003	8-719-301-36	DIODE SEL4410E-D	
CN608 *1-695-561-11 PIN, CONNECTOR (PC BOARD) 7P				D004	8-719-301-36	DIODE SEL4410E-D	
<SWITCH>				*****			
S601 Δ 1-692-921-11 SWITCH, PUSH (A.C. POWER)				MISCELLANEOUS			
*****				*****			
*A-1390-391-B S BOARD, COMPLETE (PVM-1353MD)				Δ 1-426-442-21 COIL, DEMAGNETIZATION			
*****				Δ 1-532-745-11 FUSE, GLASS TUBE 3.15A/125V (PVM-1353MD)			
<CAPACITOR>				Δ 1-576-230-11 FUSE, (H.B.C.) 3.15A/250V (PVM-1453MD)			
C805	1-102-978-00	CERAMIC 220PF 5% 50V		1-537-877-11 TERMINAL BOARD ASSY, I/O (Q BOARD)			
C806	1-136-165-00	FILM 0.1MF 5% 50V		1-544-063-12 SPEAKER			
C807	1-130-477-00	MYLAR 0.0033MF 5% 50V		1-690-871-11 CABLE (MINI DIN) 8P			
C810	1-136-165-00	FILM 0.1MF 5% 50V		Δ 8-451-329-12 DEFLECTION Yoke Y14FZAM			
C811	1-136-165-00	FILM 0.1MF 5% 50V		V901 Δ 8-734-525-05 PICTURE TUBE 14FZ-4 (PVM-1353MD)			
C812	1-136-495-11	FILM 0.068MF 5% 50V		Δ 8-734-822-05 PICTURE TUBE 14FZ4 (PVM-1353MD)			
C813	1-124-907-11	ELECT 10MF 20% 50V		Δ 8-734-523-05 PICTURE TUBE 14FZ-2 (PVM-1453MD)			
C818	1-136-165-00	FILM 0.1MF 5% 50V		Δ 8-734-622-05 PICTURE TUBE 14FZ2 (PVM-1453MD)			
<CONNECTOR>				*****			
CN801 *1-565-489-11 CONNECTOR, BOARD TO BOARD 13P							
<IC>							
IC801 8-759-328-12 IC Z8622812PSC							
<COIL>							
L801	1-410-470-11	INDUCTOR 10UH					
<RESISTOR>							
R802	1-249-435-11	CARBON 33K 5% 1/4W					
R803	1-247-863-91	CARBON 22K 5% 1/4W					
R804	1-215-454-00	METAL 24K 1% 1/4W					
R805	1-215-461-00	METAL 47K 1% 1/4W					
R808	1-249-417-11	CARBON 1K 5% 1/4W					

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK
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ACCESSORIES AND PACKING MATERIALS

Δ 1-551-631-22	CORD, POWER (6.0A/250V) (PVM-1453MD)
Δ 1-559-945-11	CORD, POWER (10A/1250V) (PVM-1353MD)
1-690-871-11	CABLE (MINI DIN) 8P
3-170-078-01	HOLDER (B), PLUG
3-798-310-21	MANUAL, INSTRUCTION (PVM-1353MD)
3-798-310-41	MANUAL, INSTRUCTION (PVM-1453MD)
3-798-710-11	MANUAL, PROTOCOL
*4-043-762-01	CUSHION (UPPER) (ASSY)
*4-043-763-01	CUSHION (LOWER) (ASSY)
4-048-070-01	HINGE, COVER
4-048-071-01	COVER, CONTROL PANEL
4-048-073-01	COVER, DROP PROTECTION
4-048-145-01	MANUAL, INSTANT INFORMATION (PVM-1353MD)
4-048-145-11	MANUAL, INSTANT INFORMATION (PVM-1453MD)
4-048-176-01	SHEET, ADHESIVE
*4-048-226-01	INDIVIDUAL CARTON (PVM-1353MD)
*4-048-230-01	INDIVIDUAL CARTON (PVM-1453MD)
*4-381-155-01	BAG, PROTECTION